

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061824.D
 Acq On : 4 Mar 2019 17:02
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Quant Time: Mar 05 04:37:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	325879	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.60	114	462211	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	391895	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	221643	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	49062	20.53	ug/l	0.00
Spiked Amount						
			Recovery	=	41.06%	
35) Dibromofluoromethane	4.12	113	68993	20.10	ug/l	0.00
Spiked Amount						
			Recovery	=	40.20%	
50) Toluene-d8	7.56	98	197494	20.02	ug/l	0.00
Spiked Amount						
			Recovery	=	40.04%	
62) 4-Bromofluorobenzene	11.41	95	77311	19.36	ug/l	0.00
Spiked Amount						
			Recovery	=	38.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	85270	22.785	ug/l	98
3) Chloromethane	1.11	50	80295	20.449	ug/l	95
4) Vinyl Chloride	1.15	62	78820	21.593	ug/l #	88
5) Bromomethane	1.32	94	47284	18.821	ug/l	94
6) Chloroethane	1.39	64	35171	19.552	ug/l	88
7) Trichlorofluoromethane	1.49	101	89989	20.440	ug/l	90
8) Diethyl Ether	1.64	74	19844	17.885	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.84	101	62418	19.652	ug/l	93
10) Methyl Iodide	1.92	142	91100	15.015	ug/l	97
11) Tert butyl alcohol	2.58	59	13028	94.200	ug/l	95
12) 1,1-Dichloroethene	1.81	96	53971	19.327	ug/l	93
13) Acrolein	2.00	56	15299	88.016	ug/l	96
14) Allyl chloride	2.09	41	56962	16.623	ug/l	97
15) Acrylonitrile	2.95	53	42150	85.922	ug/l	95
16) Acetone	2.24	43	47002	91.671	ug/l	97
17) Carbon Disulfide	1.83	76	127483	14.524	ug/l	97
18) Methyl Acetate	2.36	43	21559	18.665	ug/l	92
19) Methyl tert-butyl Ether	2.44	73	94069	19.711	ug/l	100
20) Methylene Chloride	2.18	84	17232	5.564	ug/l	97
21) trans-1,2-Dichloroethene	2.31	96	46161	15.206	ug/l	87
22) Diisopropyl ether	2.80	45	153767	18.694	ug/l	97
23) Vinyl Acetate	3.20	43	345294	85.947	ug/l	99
24) 1,1-Dichloroethane	2.88	63	94885	19.062	ug/l	97
25) 2-Butanone	4.35	43	98338	87.805	ug/l	99
26) 2,2-Dichloropropane	3.60	77	42665	20.235	ug/l	99
27) cis-1,2-Dichloroethene	3.48	96	73523	18.452	ug/l	97
28) Bromochloromethane	3.72	49	42969	17.991	ug/l	100
29) Tetrahydrofuran	4.08	42	42512	83.516	ug/l	97
30) Chloroform	3.87	83	106705	18.850	ug/l	94
31) Cyclohexane	3.69	56	54489	10.112	ug/l #	93
32) 1,1,1-Trichloroethane	4.10	97	64887	17.498	ug/l	97
36) 1,1-Dichloropropene	4.28	75	91501	19.984	ug/l	95
37) Ethyl Acetate	4.12	43	40253	18.927	ug/l #	96
38) Carbon Tetrachloride	3.99	117	61772	19.538	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	104423	19.284	ug/l	98
40) Benzene	4.64	78	235950	19.701	ug/l	95
41) Methacrylonitrile	4.75	41	20832	19.154	ug/l #	91
42) 1,2-Dichloroethane	4.95	62	58394	20.383	ug/l	99
43) Isopropyl Acetate	6.96	43	43625	17.330	ug/l #	96
44) Trichloroethene	5.51	130	70485	18.199	ug/l	96
45) 1,2-Dichloropropane	6.24	63	55708	19.243	ug/l #	87
46) Dibromomethane	6.09	93	34452	19.329	ug/l #	79
47) Bromodichloromethane	6.39	83	76585	19.621	ug/l	95
48) Methyl methacrylate	6.73	41	29234	19.297	ug/l	96
49) 1,4-Dioxane	6.72	88	5210	365.842	ug/l #	91
51) 4-Methyl-2-Pentanone	8.27	43	162835	90.527	ug/l	99
52) Toluene	7.63	92	138464	19.063	ug/l	99
53) t-1,3-Dichloropropene	8.29	75	63220	19.461	ug/l	97
54) cis-1,3-Dichloropropene	7.31	75	87169	20.145	ug/l	96
55) 1,1,2-Trichloroethane	8.50	97	39392	18.458	ug/l	97
56) Ethyl methacrylate	8.62	69	42171	17.749	ug/l	93
57) 1,3-Dichloropropane	8.86	76	64160	18.012	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.30	63	35368	86.274	ug/l	95
59) 2-Hexanone	9.50	43	116208	92.165	ug/l	96
60) Dibromochloromethane	8.73	129	55548	18.701	ug/l	94
61) 1,2-Dibromoethane	9.00	107	41550	17.950	ug/l	94
64) Tetrachloroethene	8.16	164	62966	19.657	ug/l	94
65) Chlorobenzene	9.80	112	155404	19.542	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.93	131	62553	20.074	ug/l	99
67) Ethyl Benzene	9.90	91	262739	19.867	ug/l	99
68) m/p-Xylenes	10.14	106	200843	39.682	ug/l	95
69) o-Xylene	10.72	106	106447	19.710	ug/l	93
70) Styrene	10.79	104	154538	20.227	ug/l	96
71) Bromoform	10.78	173	32355	19.121	ug/l #	95
73) Isopropylbenzene	11.12	105	319804	20.266	ug/l	97
74) N-amyl acetate	11.37	43	72997	19.272	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.70	83	51794	18.320	ug/l	99
76) 1,2,3-Trichloropropane	11.80	75	34608	18.005	ug/l	96
77) Bromobenzene	11.50	156	73509	18.856	ug/l	96
78) n-propylbenzene	11.60	91	355379	19.625	ug/l	95
79) 2-Chlorotoluene	11.73	91	203402	20.056	ug/l	95
80) 1,3,5-Trimethylbenzene	11.83	105	252698	20.036	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.87	75	21625	23.467	ug/l	93
82) 4-Chlorotoluene	11.90	91	208430	19.800	ug/l	98
83) tert-Butylbenzene	12.13	119	272983	19.541	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	254272	20.293	ug/l	95
85) sec-Butylbenzene	12.31	105	347705	19.247	ug/l	96
86) p-Isopropyltoluene	12.47	119	295893	19.517	ug/l	97
87) 1,3-Dichlorobenzene	12.48	146	138067	18.166	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	134997	18.469	ug/l	98
89) n-Butylbenzene	12.85	91	291435	20.357	ug/l	91
90) Hexachloroethane	12.92	117	69647	19.752	ug/l	91
91) 1,2-Dichlorobenzene	12.95	146	135363	18.725	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.65	75	7441	16.601	ug/l	70

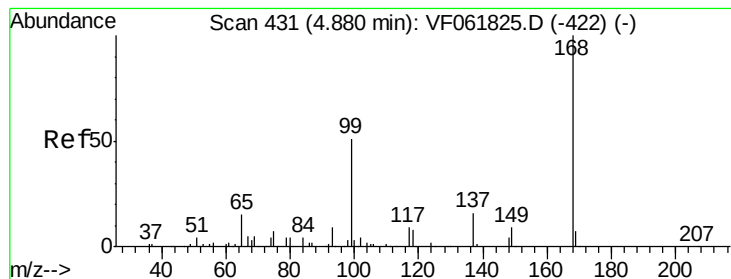
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	93612	18.066	ug/l	96
94) Hexachlorobutadiene	14.19	225	62871	19.646	ug/l	98
95) Naphthalene	14.46	128	159176	17.558	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	88157	18.536	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

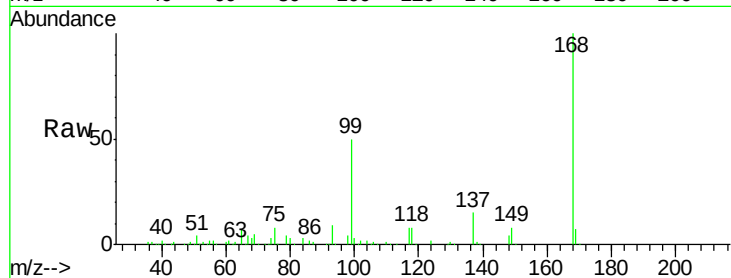
VSTDIC020

Tot Ion:168 Resp: 325879

Ion Ratio Lower Upper

168 100

99 50.4 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

120000

100000

80000

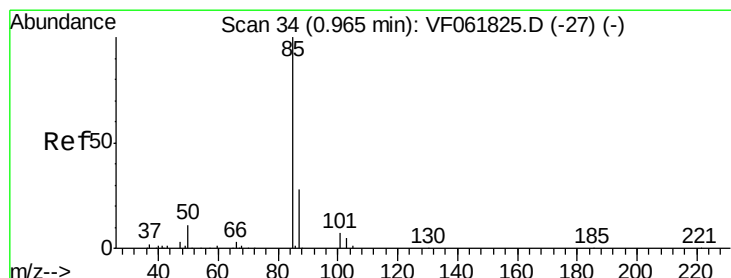
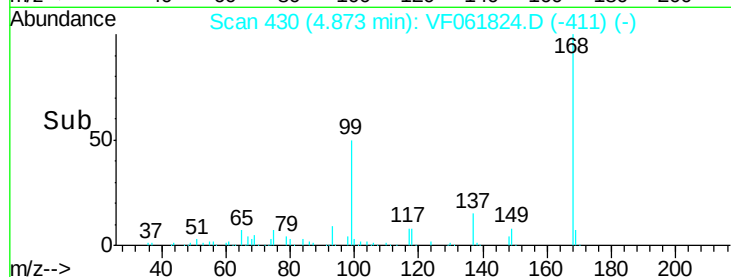
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 22.785 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061824.D

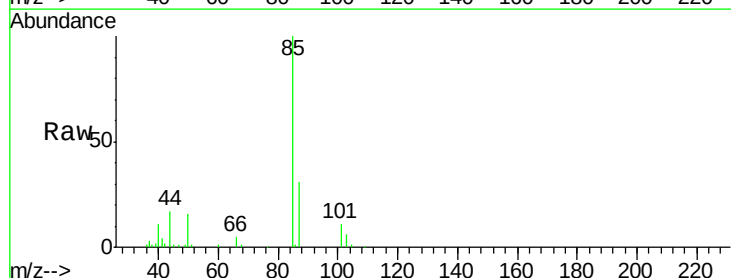
Acq: 4 Mar 2019 17:02

Tgt Ion: 85 Resp: 85270

Ion Ratio Lower Upper

85 100

87 31.1 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

25000

20000

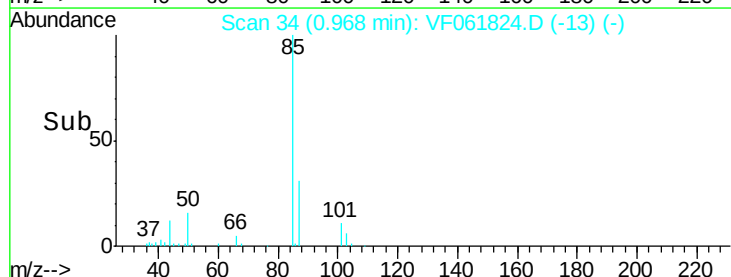
15000

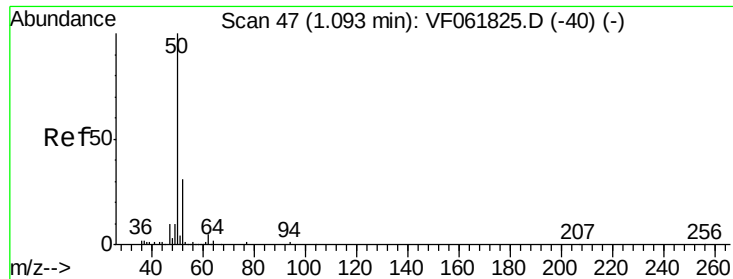
10000

5000

0

Time--> 0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 20.449 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

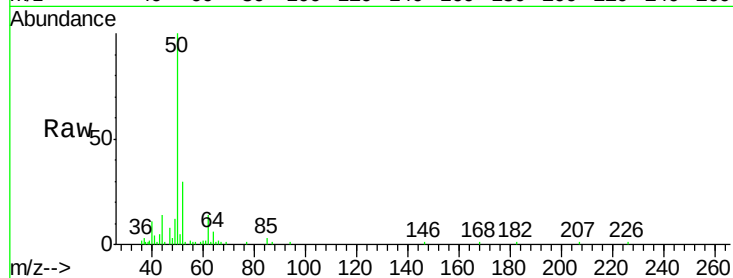
VSTDIC020

Tot Ion: 50 Resp: 80295

Ion Ratio Lower Upper

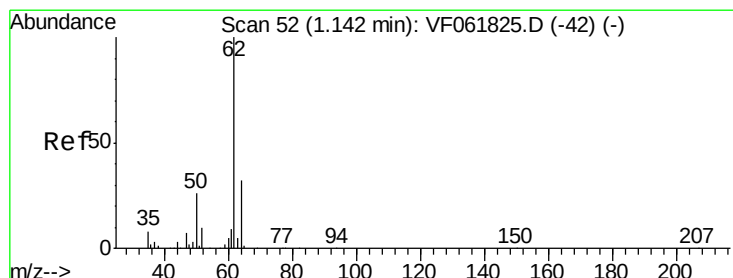
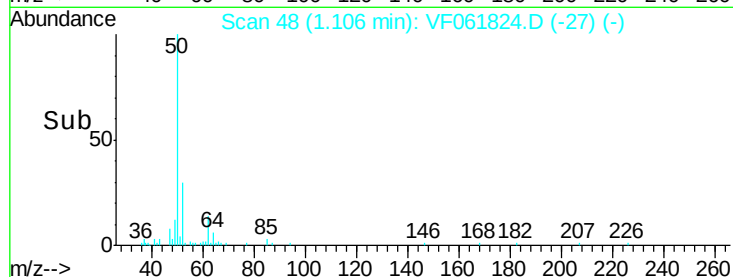
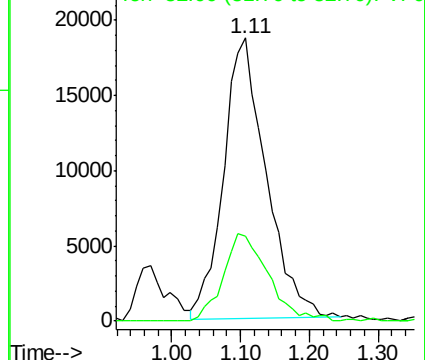
50 100

52 30.2 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 21.593 ug/l

RT: 1.15 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061824.D

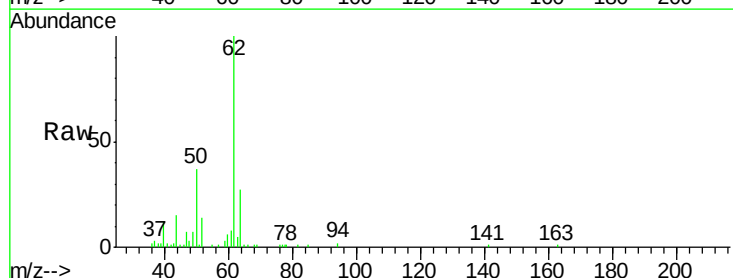
Acq: 4 Mar 2019 17:02

Tgt Ion: 62 Resp: 78820

Ion Ratio Lower Upper

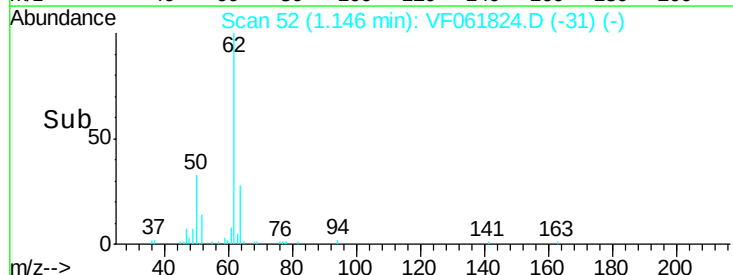
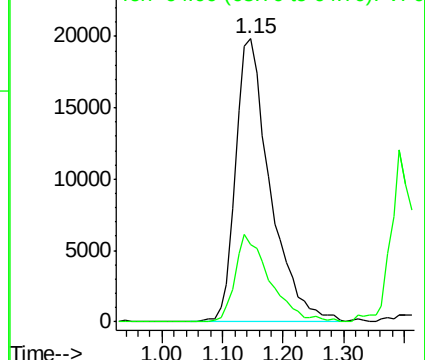
62 100

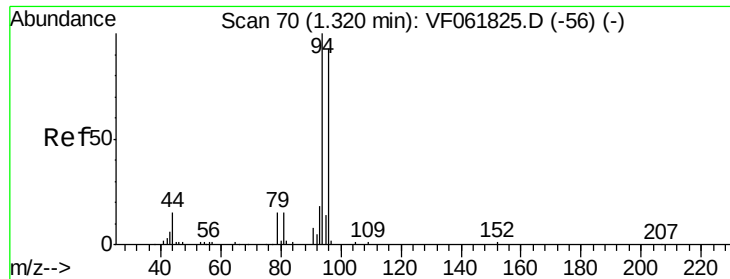
64 27.4 27.5 41.3#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 18.821 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

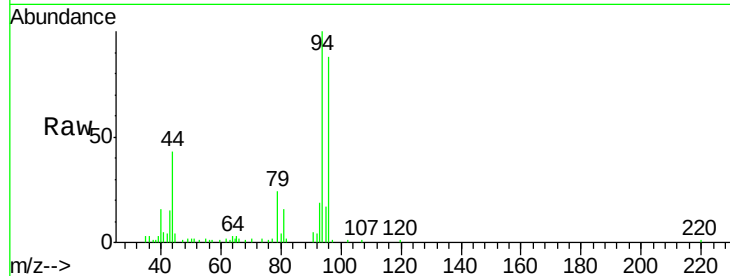
VSTDIC020

Tot Ion: 94 Resp: 47284

Ion Ratio Lower Upper

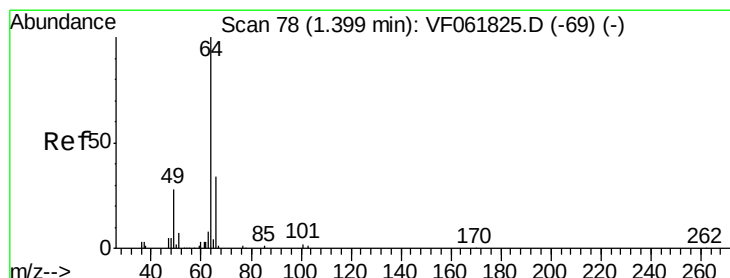
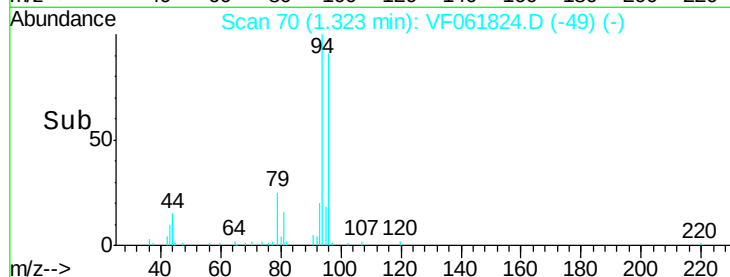
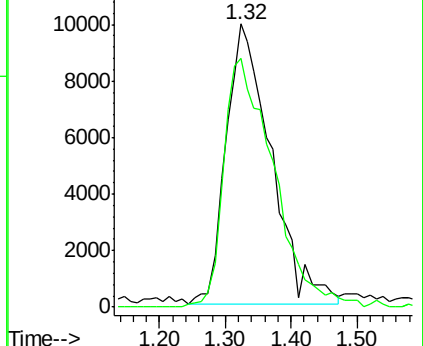
94 100

96 87.8 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 19.552 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061824.D

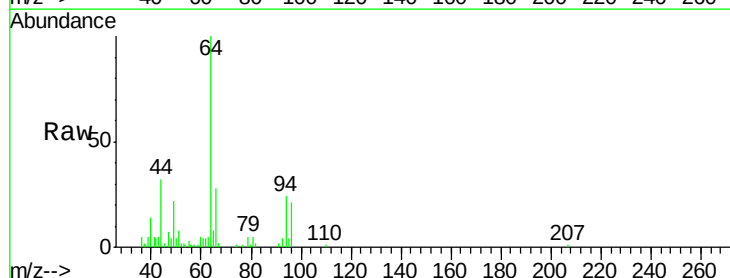
Acq: 4 Mar 2019 17:02

Tgt Ion: 64 Resp: 35171

Ion Ratio Lower Upper

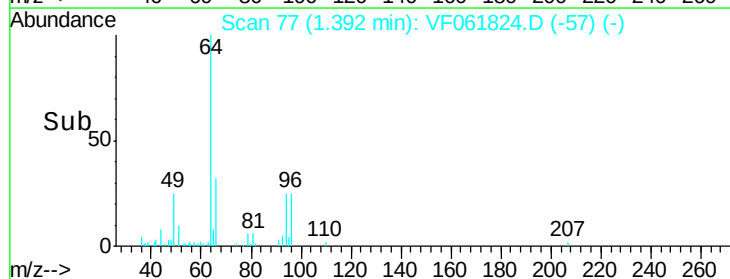
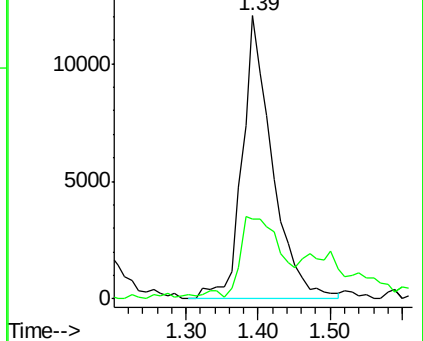
64 100

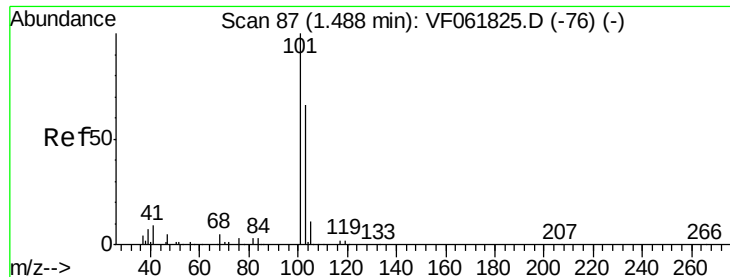
66 28.2 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 20.440 ug/l

RT: 1.49 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF061824.D

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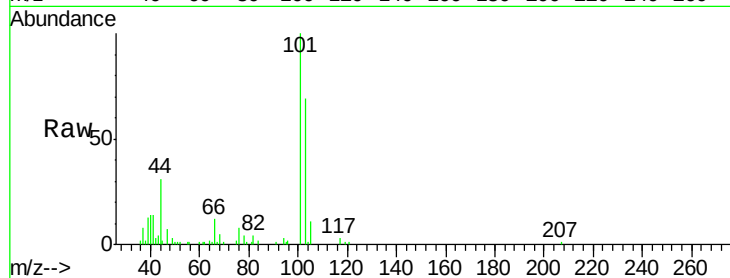
VSTDIC020

Tot Ion:101 Resp: 89989

Ion Ratio Lower Upper

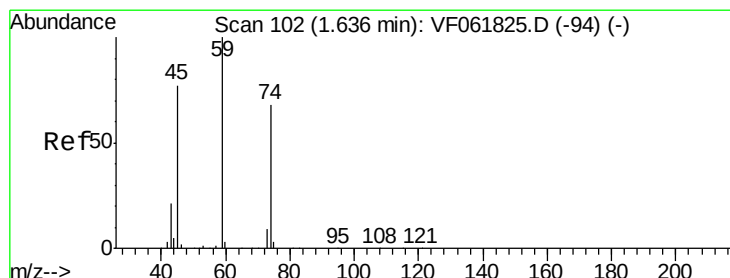
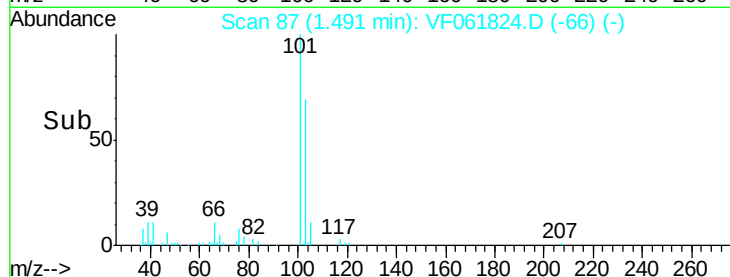
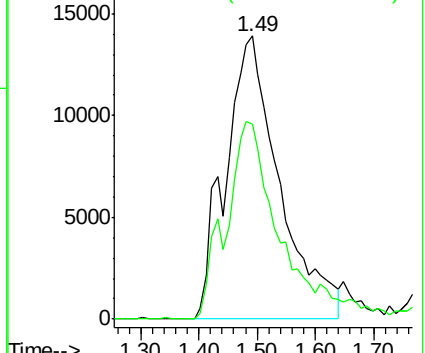
101 100

103 69.0 49.3 73.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 17.885 ug/l

RT: 1.64 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF061824.D

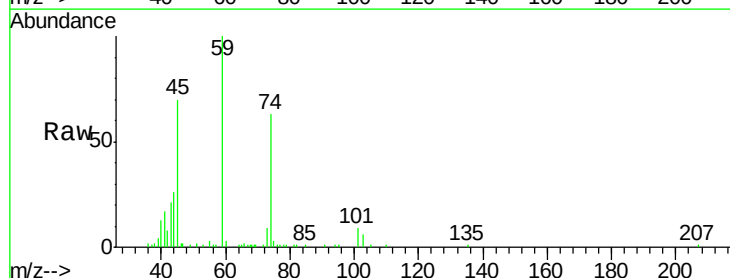
Acq: 4 Mar 2019 17:02

Tgt Ion: 74 Resp: 19844

Ion Ratio Lower Upper

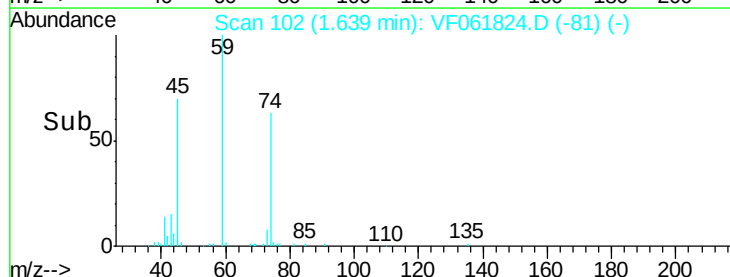
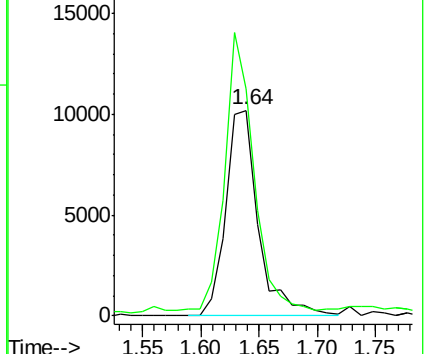
74 100

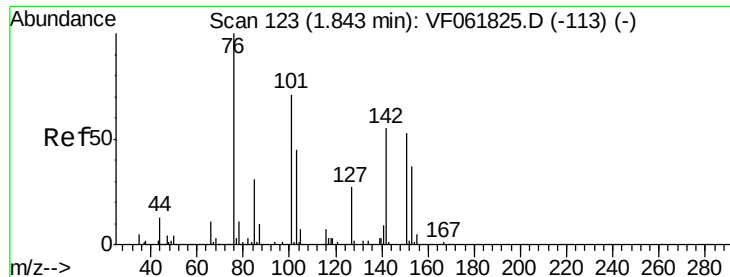
45 110.3 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.652 ug/l

RT: 1.84 min Scan# 122

Delta R.T. -0.00 min

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Acq: 4 Mar 2019 17:02

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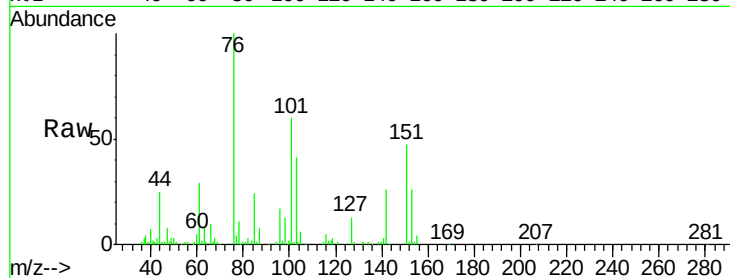
Tot Ion:101 Resp: 62418

Ion Ratio Lower Upper

101 100

85 39.1 29.8 44.6

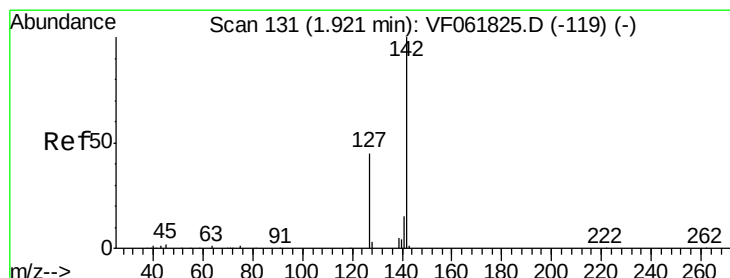
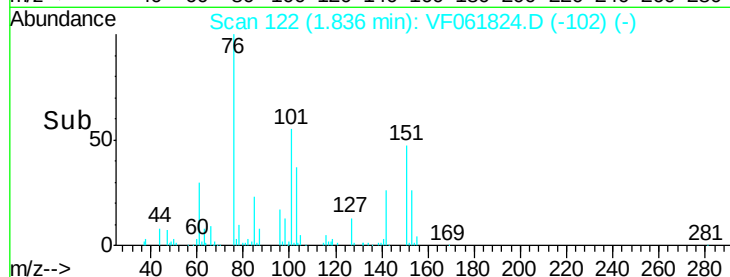
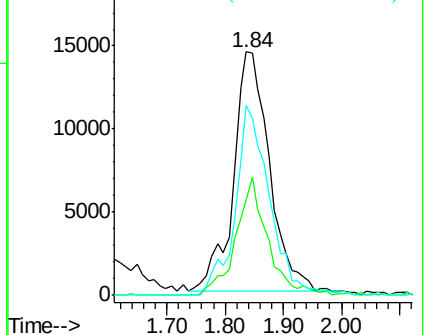
151 77.7 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 15.015 ug/l

RT: 1.92 min Scan# 130

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

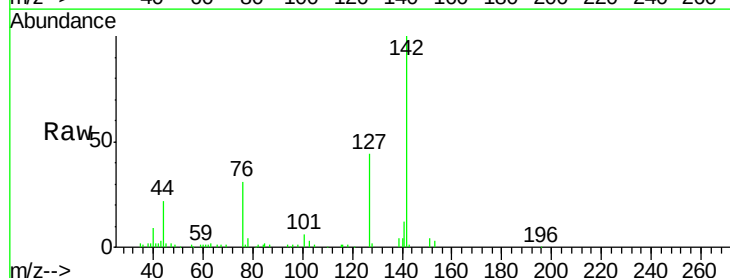
Tgt Ion:142 Resp: 91100

Ion Ratio Lower Upper

142 100

127 44.4 36.6 55.0

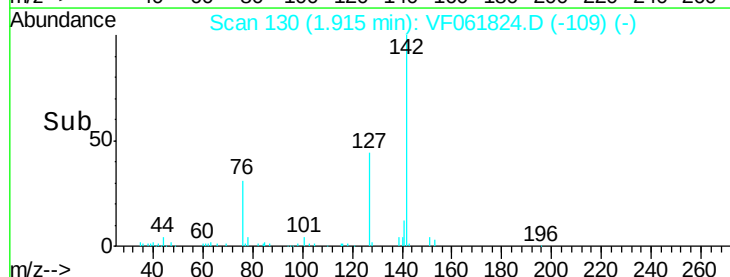
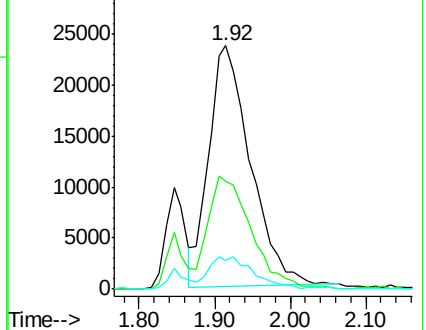
141 12.0 11.0 16.6

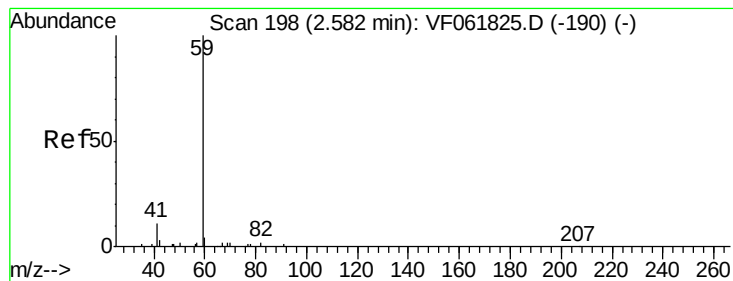


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#11

Tert butyl alcohol

Concen: 94.200 ug/l

RT: 2.58 min Scan# 197

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

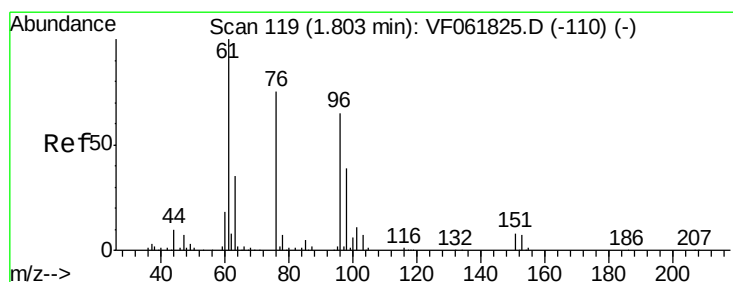
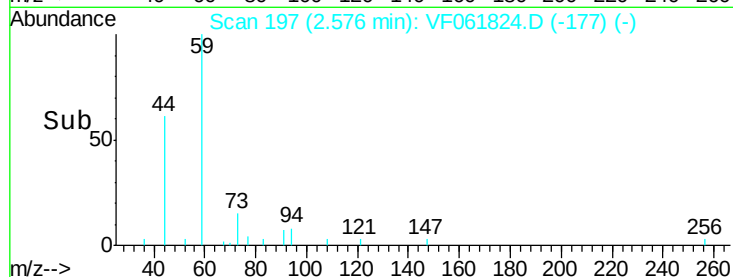
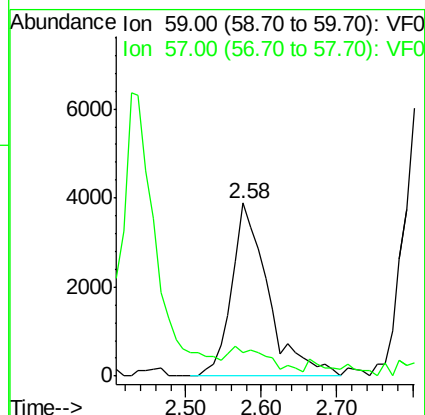
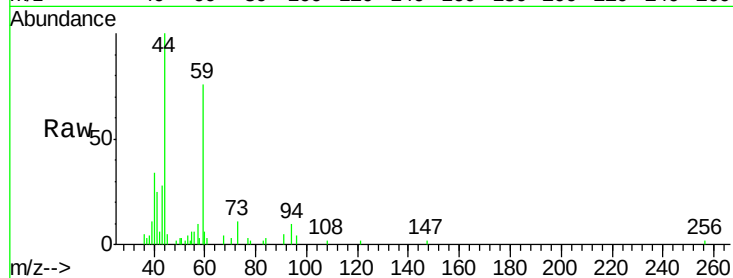
VSTDIC020

Tot Ion: 59 Resp: 13028

Ion Ratio Lower Upper

59 100

57 13.4 12.5 18.7



#12

1,1-Dichloroethene

Concen: 19.327 ug/l

RT: 1.81 min Scan# 119

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

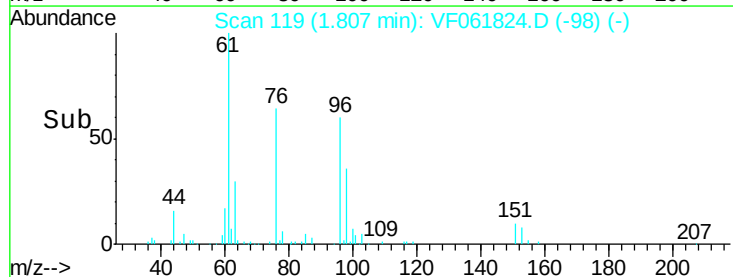
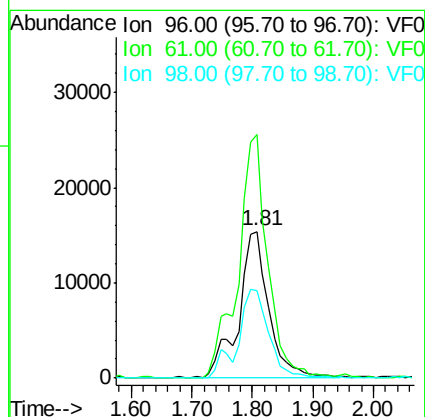
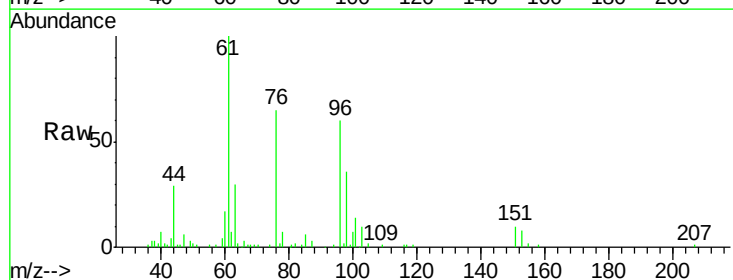
Tgt Ion: 96 Resp: 53971

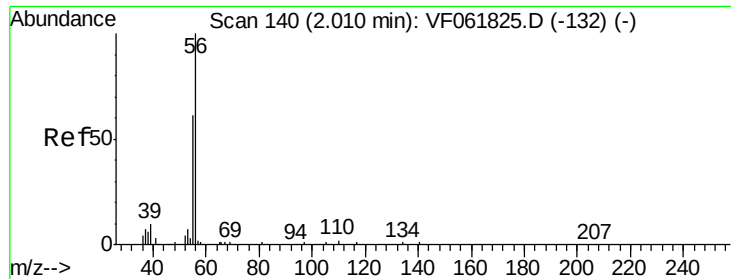
Ion Ratio Lower Upper

96 100

61 165.8 122.6 184.0

98 59.4 47.2 70.8





#13

Acrolein

Concen: 88.016 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

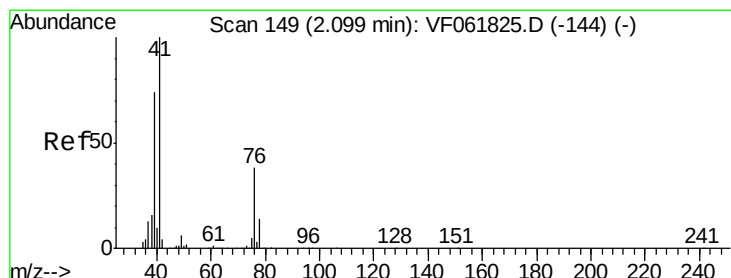
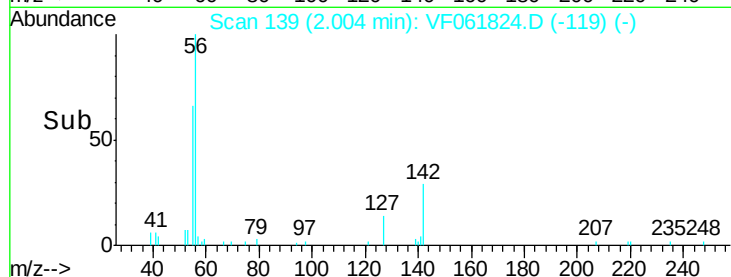
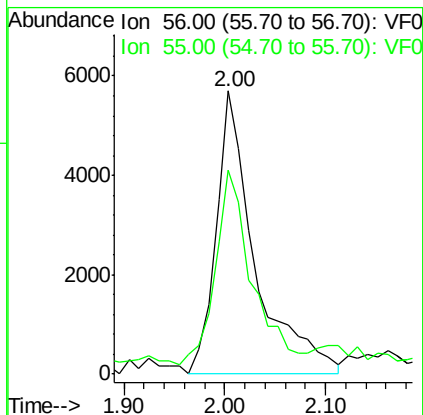
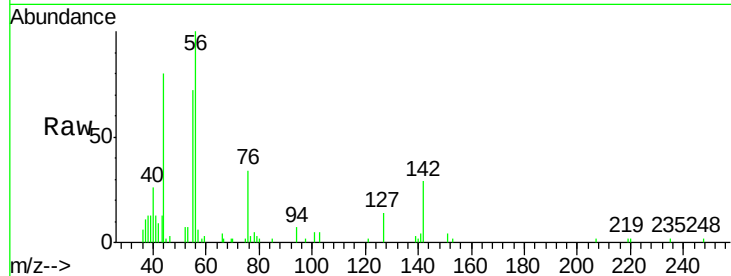
VSTDIC020

Tot Ion: 56 Resp: 15299

Ion Ratio Lower Upper

56 100

55 72.2 55.0 82.6



#14

Allyl chloride

Concen: 16.623 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

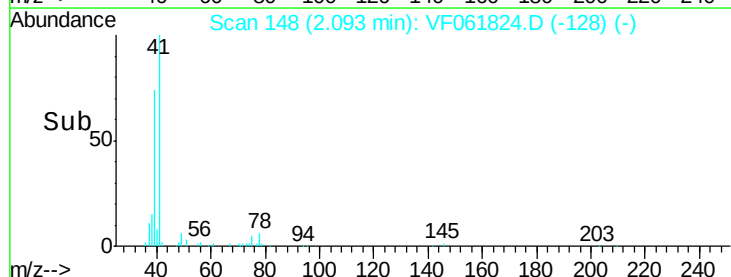
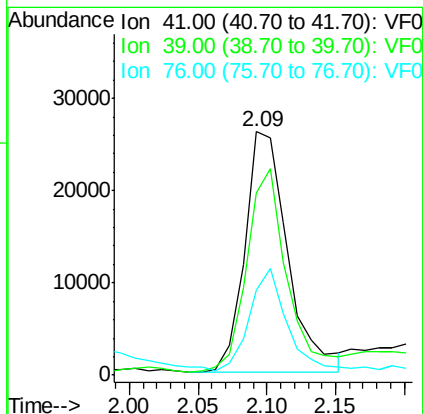
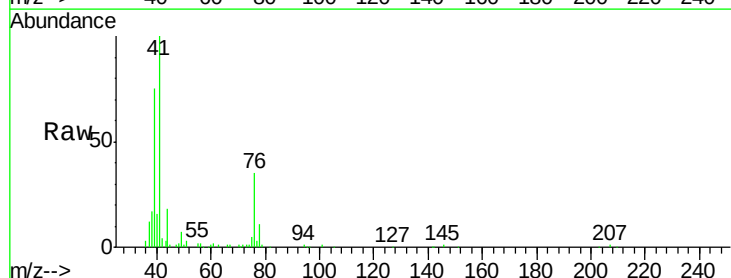
Tgt Ion: 41 Resp: 56962

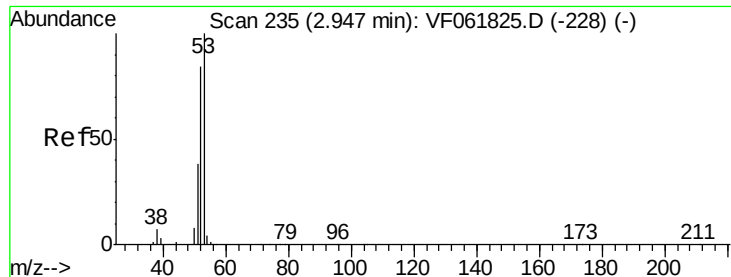
Ion Ratio Lower Upper

41 100

39 74.8 61.6 92.4

76 34.8 30.3 45.5





#15

Acrylonitrile

Concen: 85.922 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

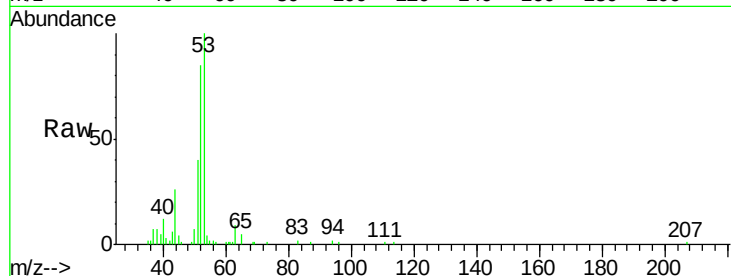
Tot Ion: 53 Resp: 42150

Ion Ratio Lower Upper

53 100

52 84.9 64.6 97.0

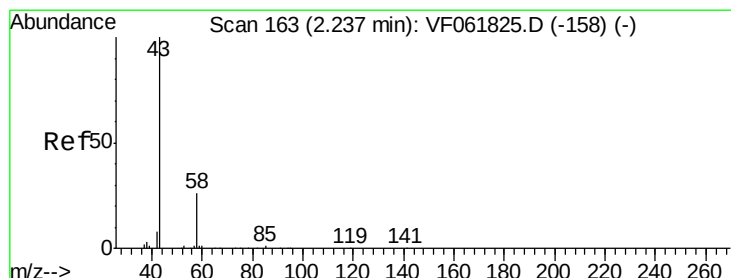
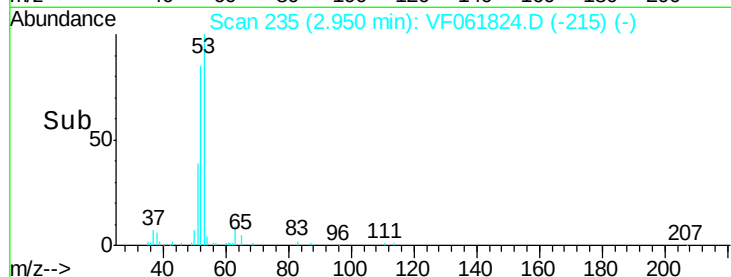
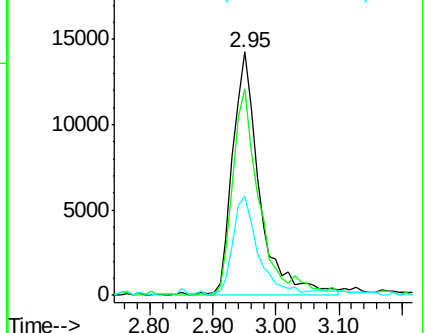
51 40.5 29.8 44.8



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 91.671 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061824.D

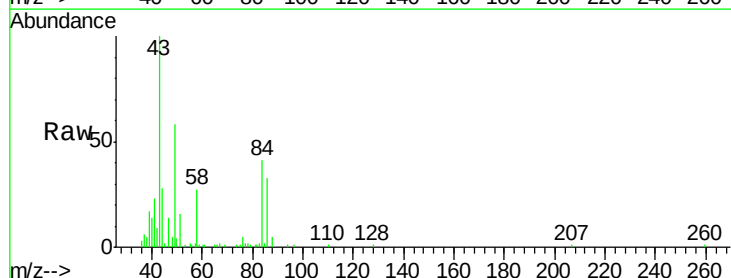
Acq: 4 Mar 2019 17:02

Tgt Ion: 43 Resp: 47002

Ion Ratio Lower Upper

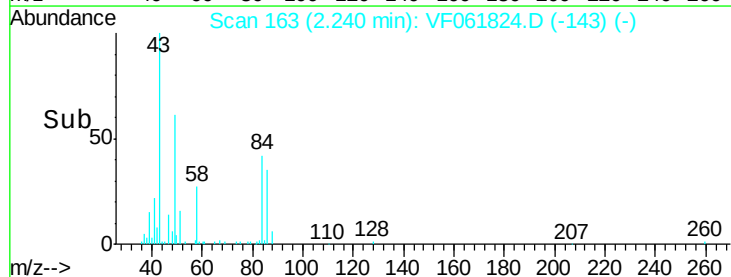
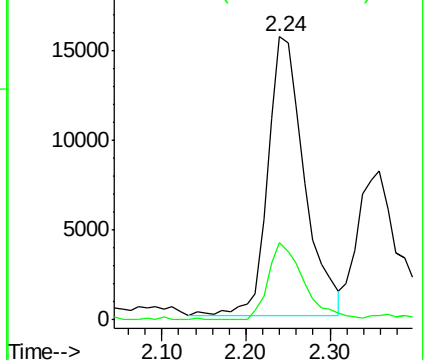
43 100

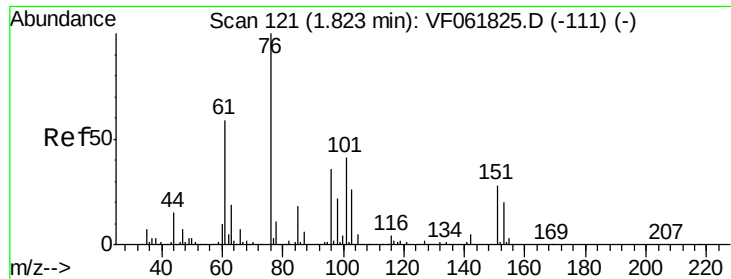
58 27.1 22.9 34.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

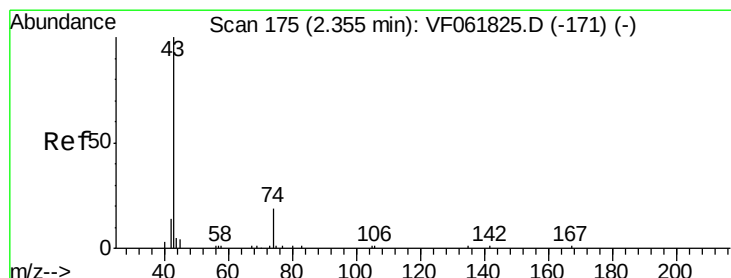
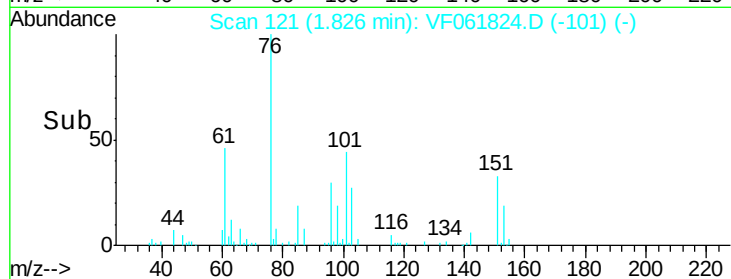
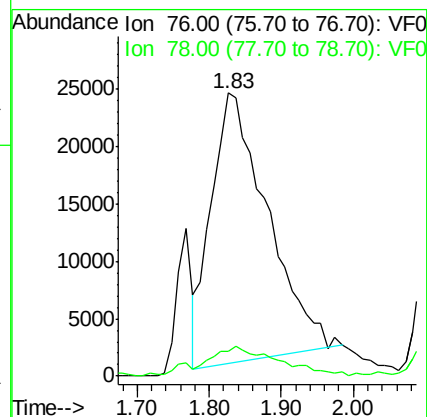
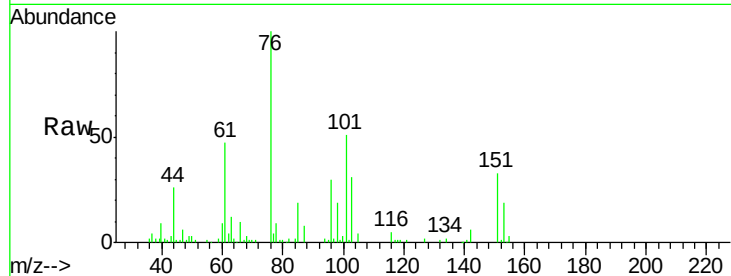




#17
Carbon Disulfide
Concen: 14.524 ug/l
RT: 1.83 min Scan# 121
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

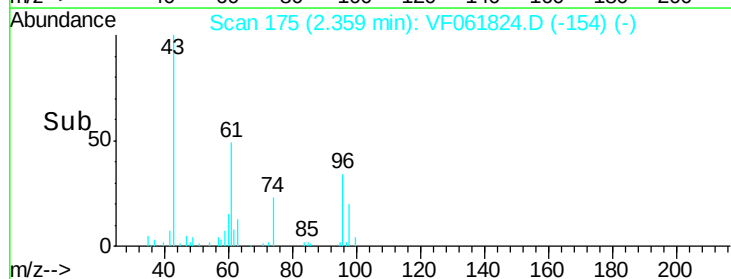
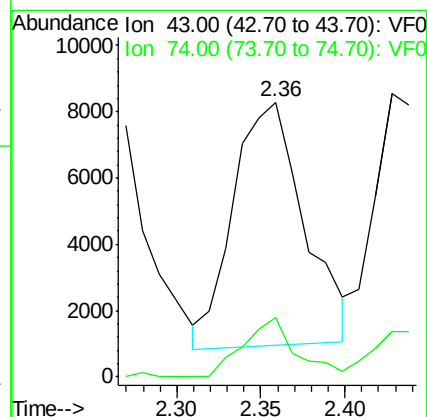
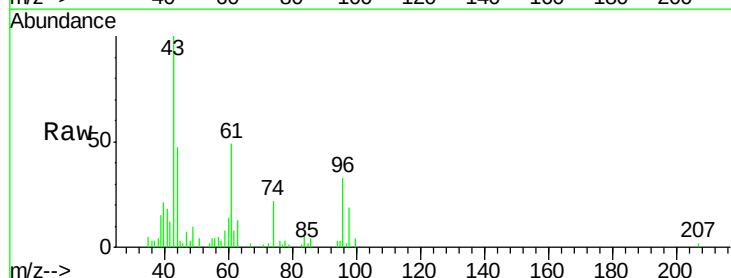
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

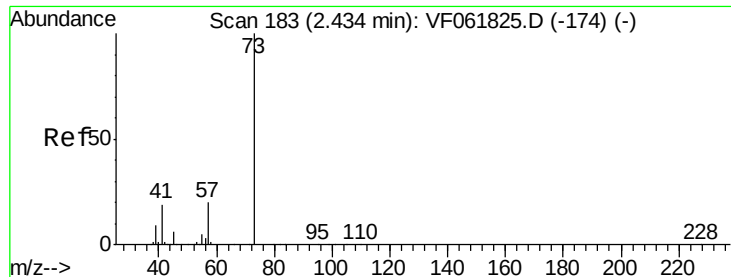
Tot Ion: 76 Resp: 127483
Ion Ratio Lower Upper
76 100
78 8.8 7.9 11.9



#18
Methyl Acetate
Concen: 18.665 ug/l
RT: 2.36 min Scan# 175
Delta R.T. 0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion: 43 Resp: 21559
Ion Ratio Lower Upper
43 100
74 21.7 14.6 21.8



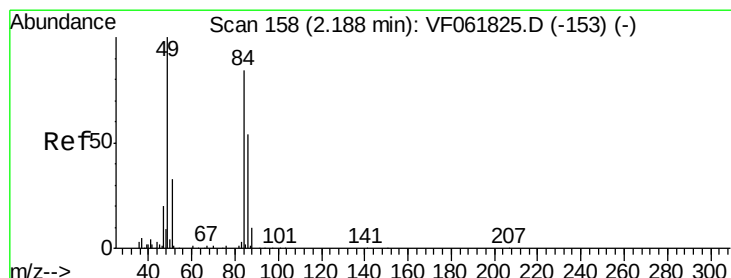
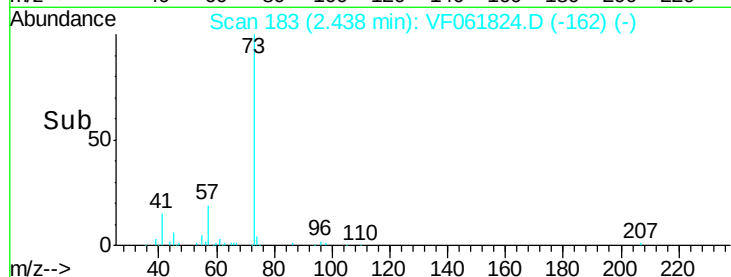
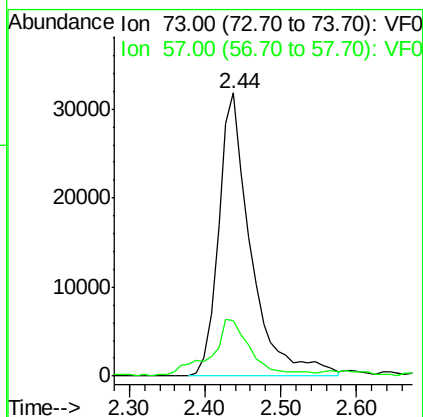
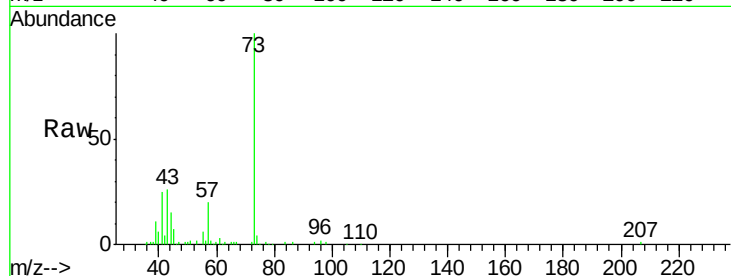


#19

Methyl tert-butyl Ether
 Concen: 19.711 ug/l
 RT: 2.44 min Scan# 183
 Delta R.T. 0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

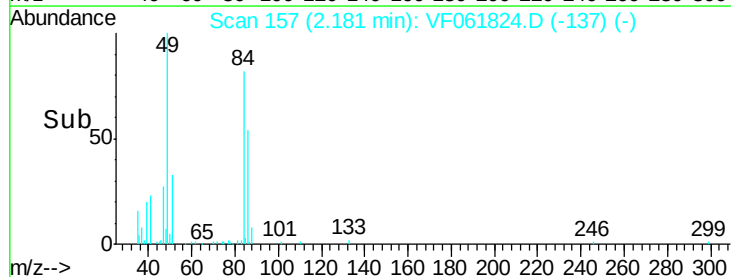
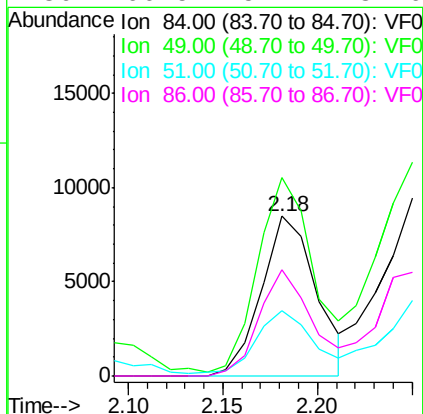
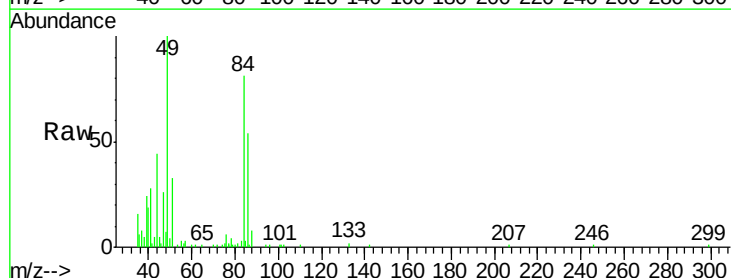
Tot Ion: 73 Resp: 94069
 Ion Ratio Lower Upper
 73 100
 57 19.8 15.8 23.8

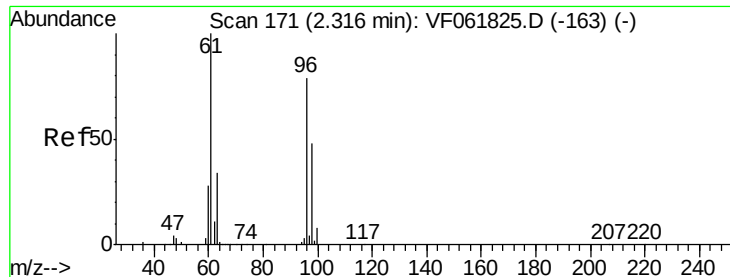


#20

Methylene Chloride
 Concen: 5.564 ug/l
 RT: 2.18 min Scan# 157
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion: 84 Resp: 17232
 Ion Ratio Lower Upper
 84 100
 49 124.1 101.8 152.8
 51 40.7 31.1 46.7
 86 66.5 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 15.206 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

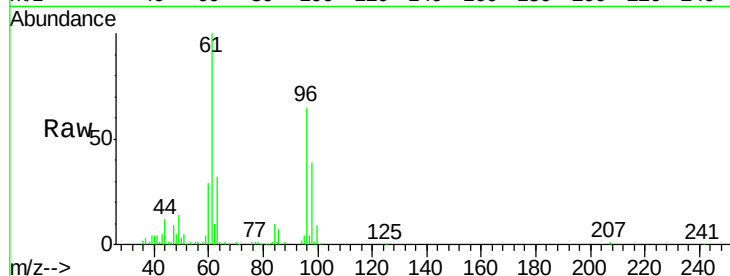
Tot Ion: 96 Resp: 46161

Ion Ratio Lower Upper

96 100

61 154.5 108.2 162.4

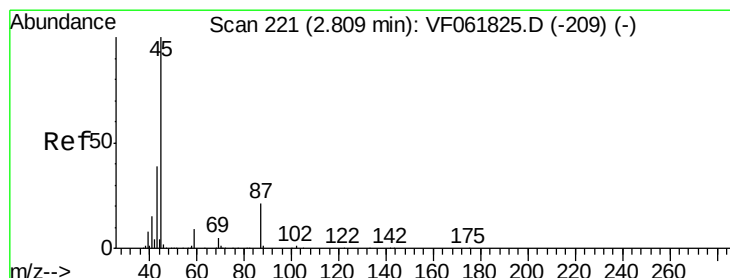
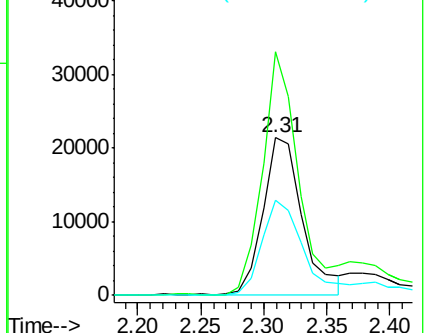
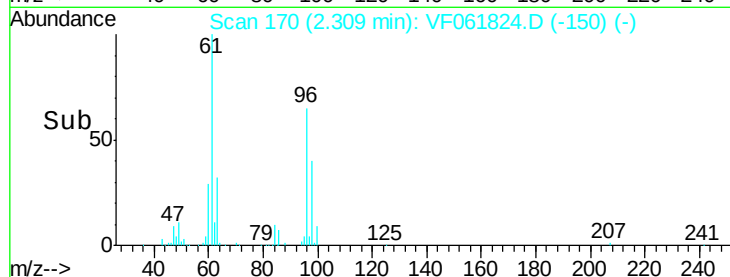
98 60.7 52.2 78.2



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 18.694 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Tgt Ion: 45 Resp: 153767

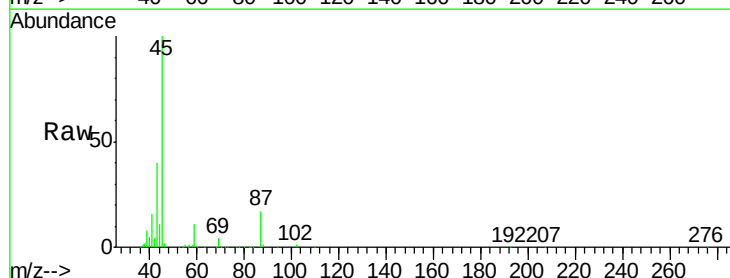
Ion Ratio Lower Upper

45 100

43 40.3 31.4 47.2

87 16.7 16.3 24.5

59 10.8 8.7 13.1

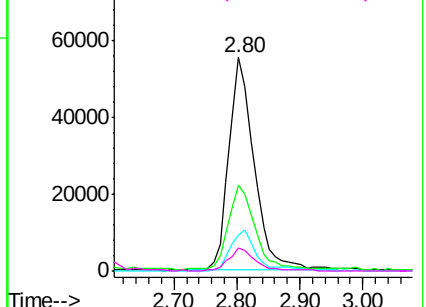
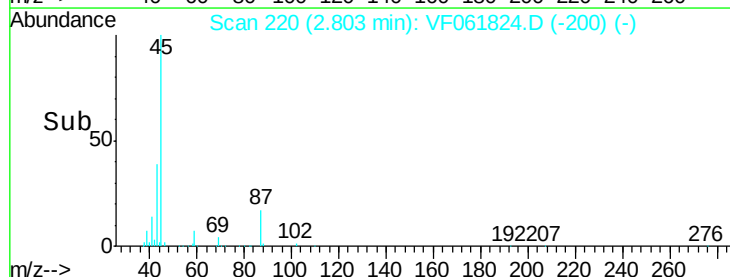


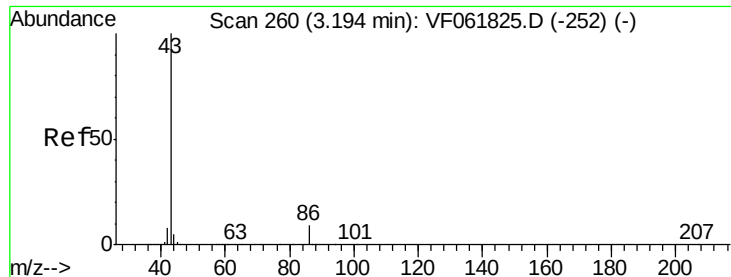
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 85.947 ug/l

RT: 3.20 min Scan# 260

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

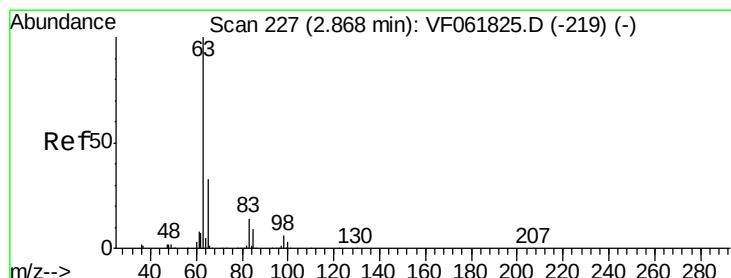
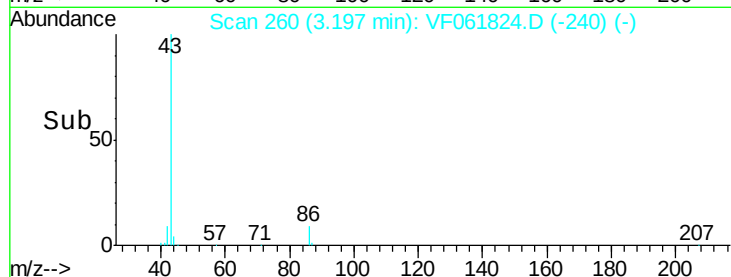
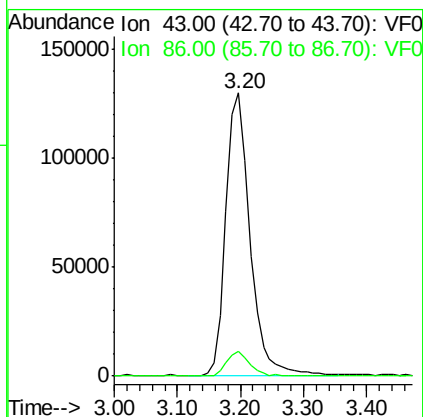
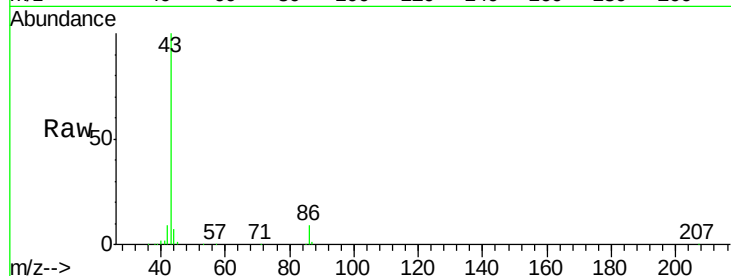
VSTDIC020

Tot Ion: 43 Resp: 345294

Ion Ratio Lower Upper

43 100

86 8.9 7.5 11.3



#24

1,1-Dichloroethane

Concen: 19.062 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

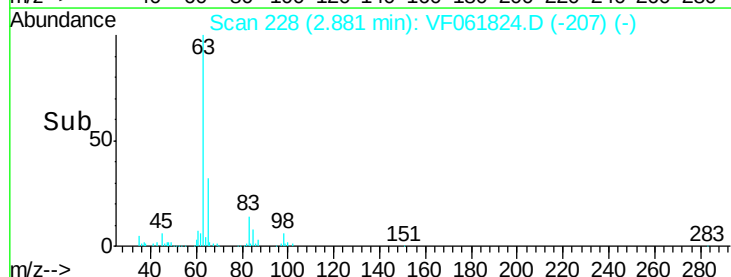
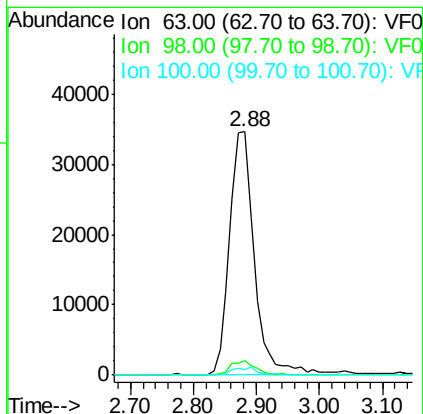
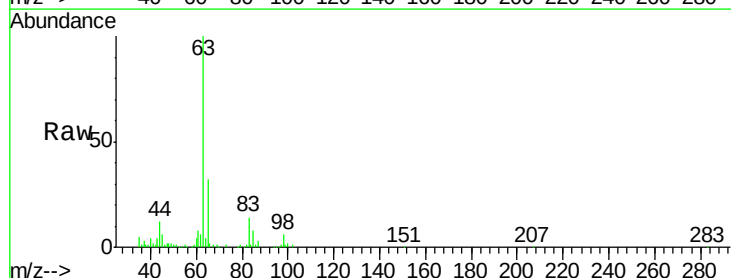
Tgt Ion: 63 Resp: 94885

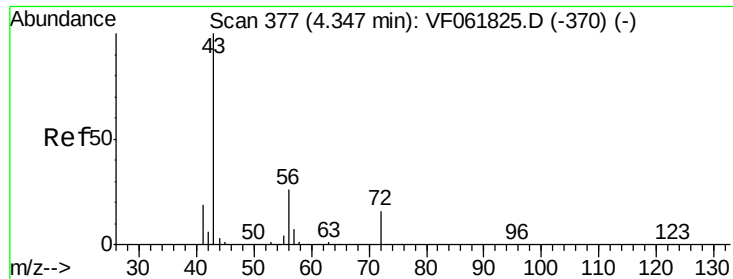
Ion Ratio Lower Upper

63 100

98 6.0 2.8 8.3

100 2.1 1.8 5.4





#25

2-Butanone

Concen: 87.805 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

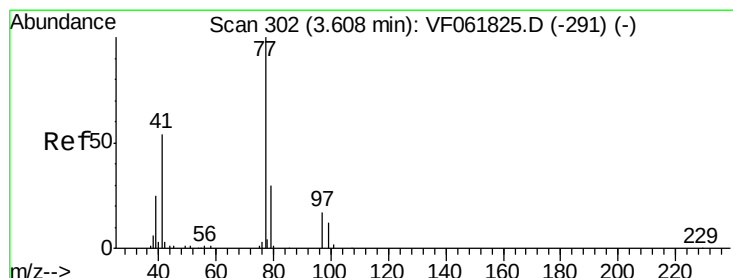
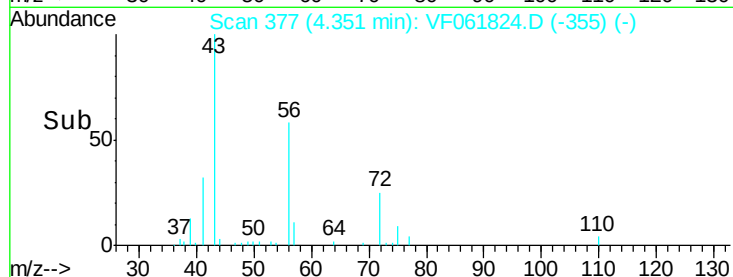
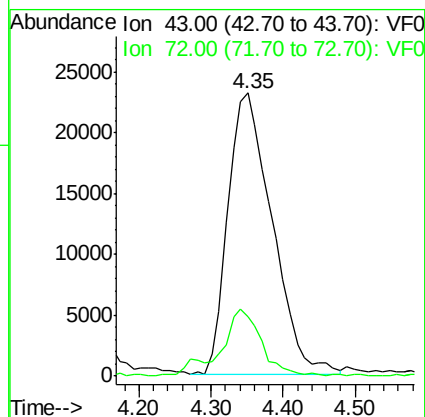
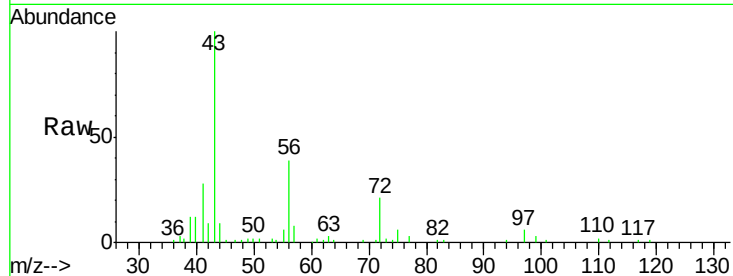
VSTDIC020

Tot Ion: 43 Resp: 98338

Ion Ratio Lower Upper

43 100

72 21.0 17.1 25.7



#26

2,2-Dichloropropane

Concen: 20.235 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.01 min

Lab File: VF061824.D

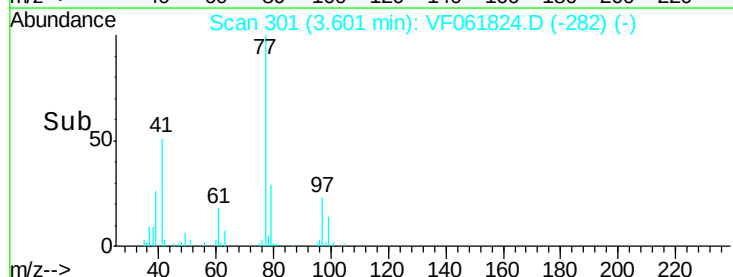
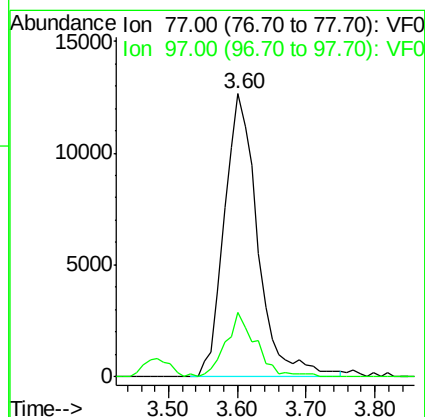
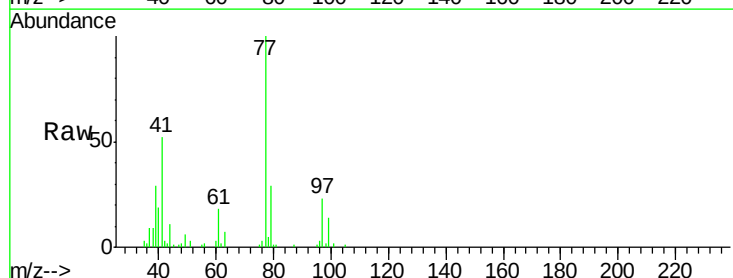
Acq: 4 Mar 2019 17:02

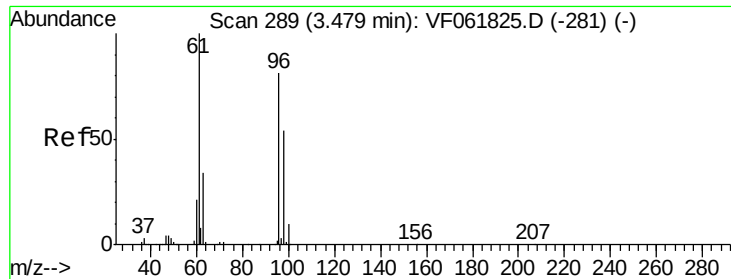
Tgt Ion: 77 Resp: 42665

Ion Ratio Lower Upper

77 100

97 22.6 11.7 35.0



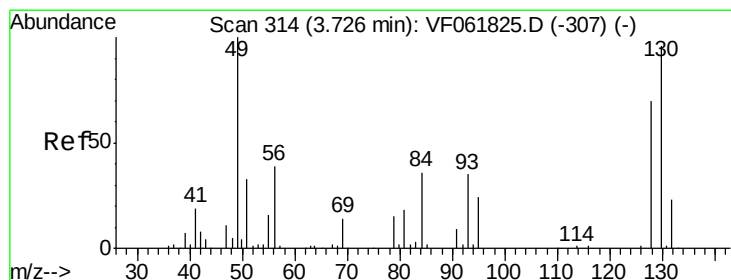
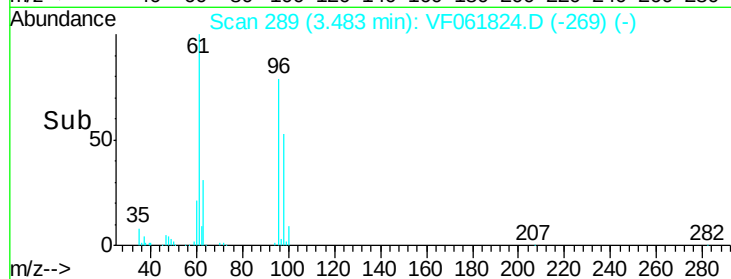
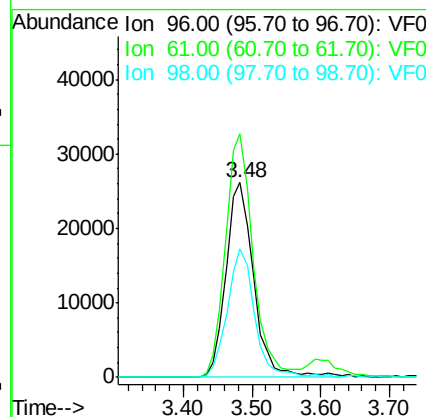
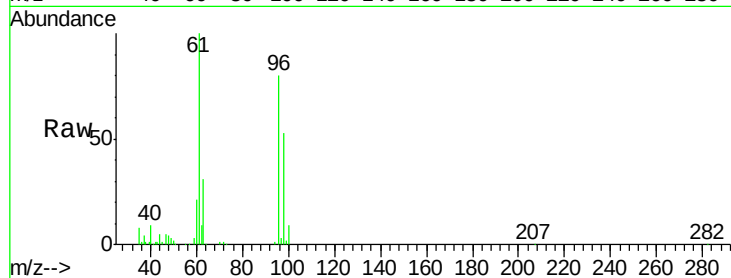


#27

cis-1,2-Dichloroethene
 Concen: 18.452 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

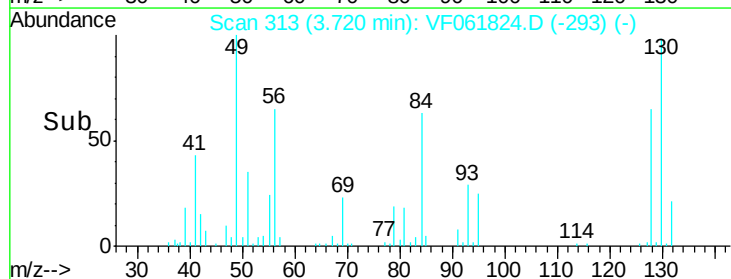
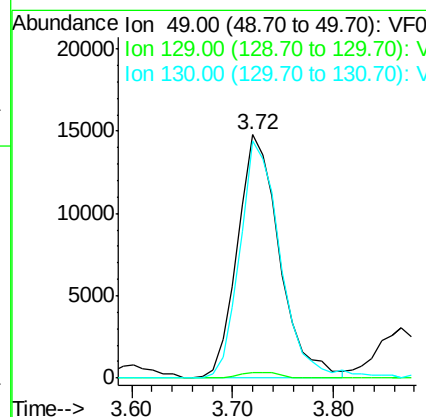
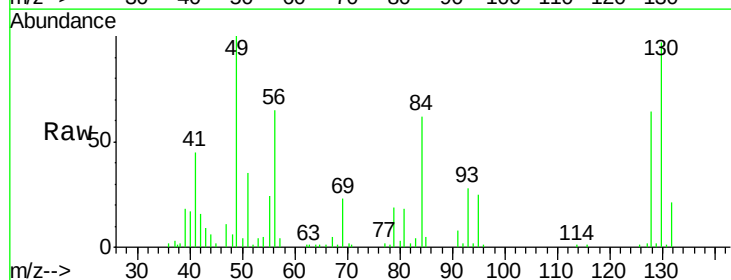
Tot Ion: 96 Resp: 73523
 Ion Ratio Lower Upper
 96 100
 61 125.1 0.0 241.6
 98 66.0 0.0 130.2

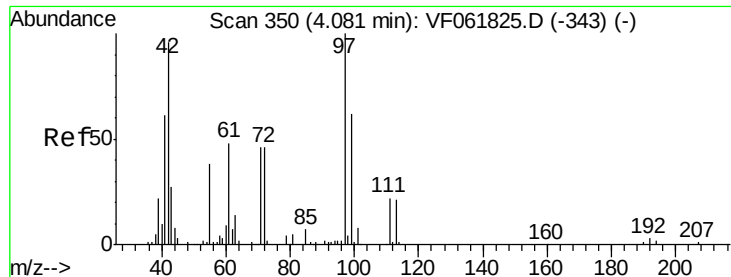


#28

Bromochloromethane
 Concen: 17.991 ug/l
 RT: 3.72 min Scan# 313
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion: 49 Resp: 42969
 Ion Ratio Lower Upper
 49 100
 129 2.4 0.0 3.4
 130 97.2 77.7 116.5





#29

Tetrahydrofuran

Concen: 83.516 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

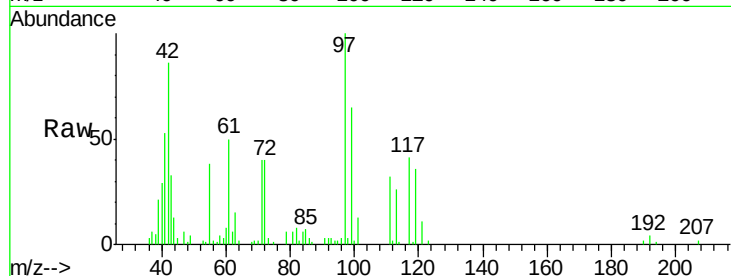
Tot Ion: 42 Resp: 42512

Ion Ratio Lower Upper

42 100

72 41.5 35.2 52.8

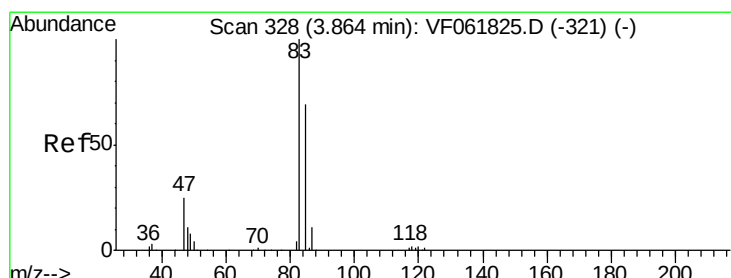
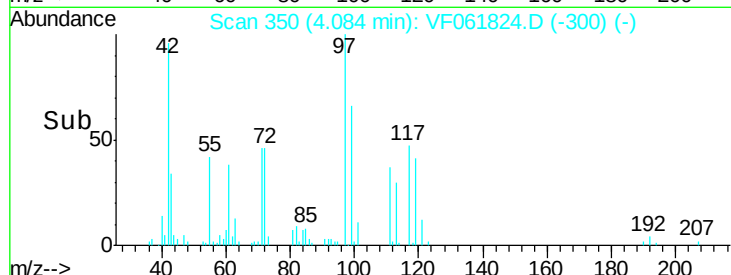
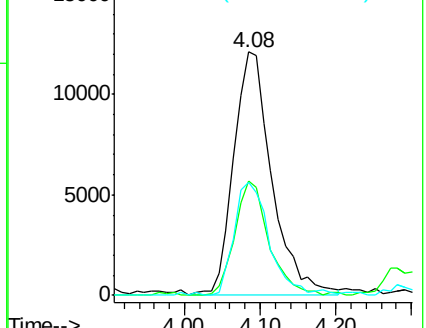
71 43.0 32.9 49.3



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 18.850 ug/l

RT: 3.87 min Scan# 328

Delta R.T. -0.00 min

Lab File: VF061824.D

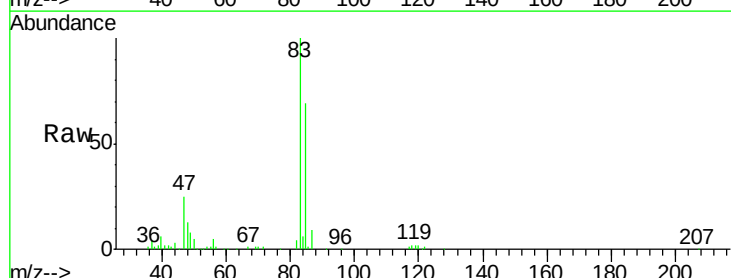
Acq: 4 Mar 2019 17:02

Tgt Ion: 83 Resp: 106705

Ion Ratio Lower Upper

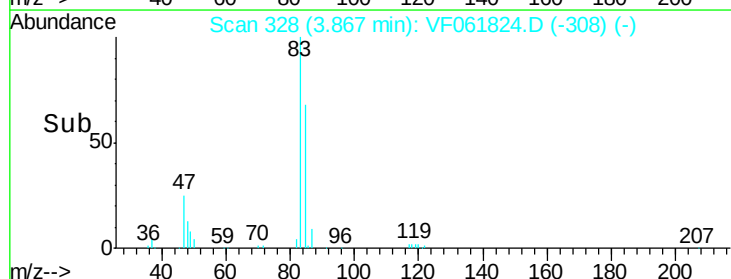
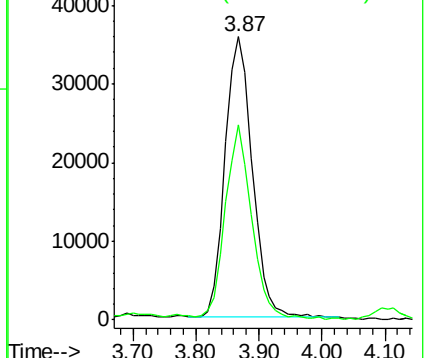
83 100

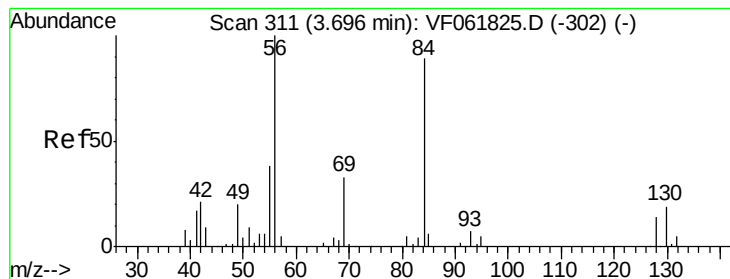
85 68.7 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 10.112 ug/l

RT: 3.69 min Scan# 310

Delta R.T. -0.01 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

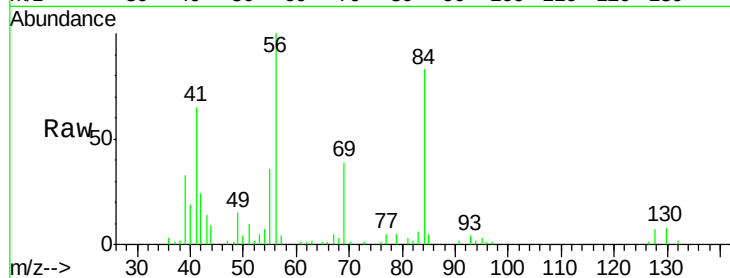
Tot Ion: 56 Resp: 54489

Ion Ratio Lower Upper

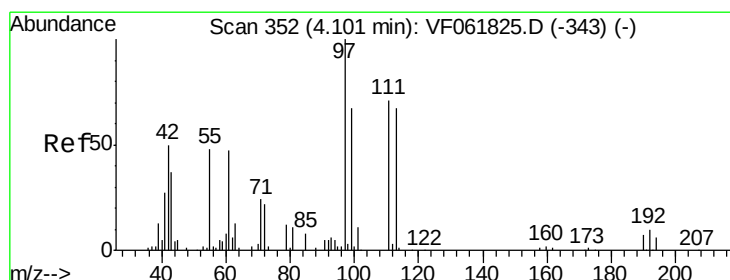
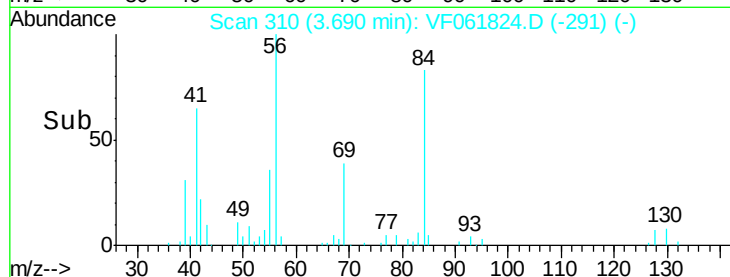
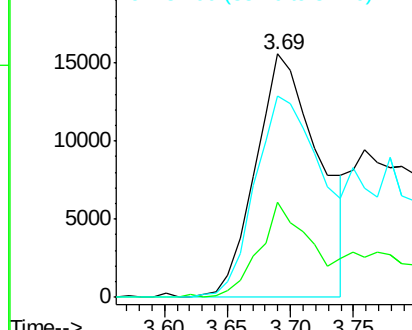
56 100

69 39.1 23.8 35.8#

84 82.7 68.6 103.0



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 17.498 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

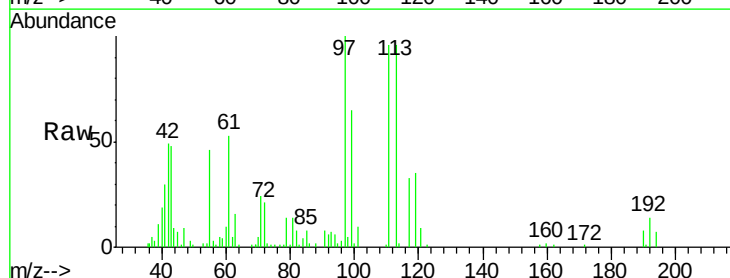
Tgt Ion: 97 Resp: 64887

Ion Ratio Lower Upper

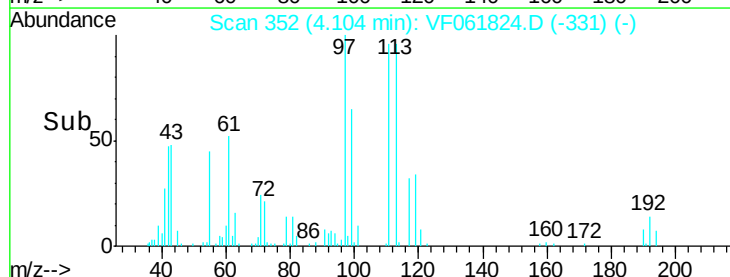
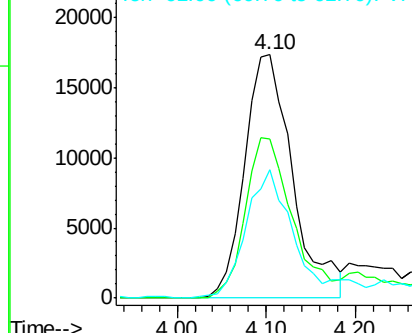
97 100

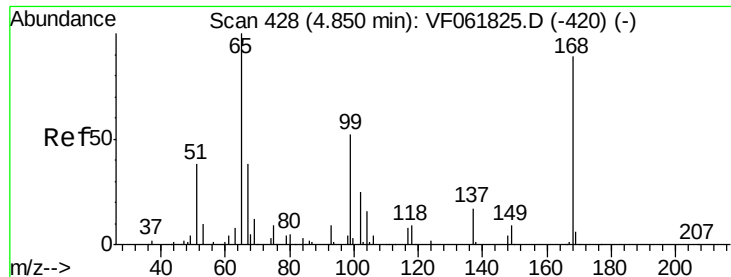
99 65.5 52.2 78.2

61 52.9 39.2 58.8



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0

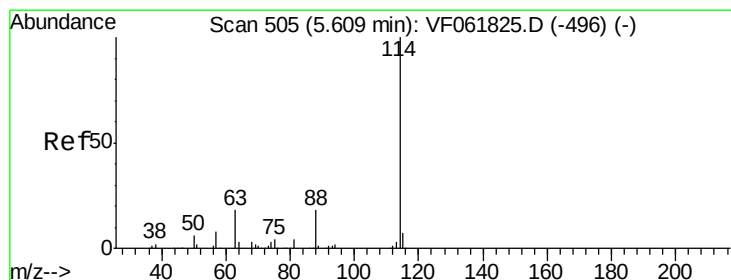
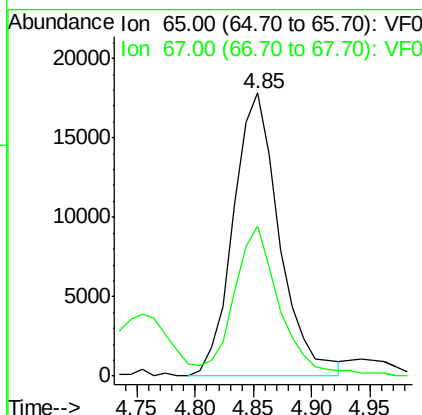
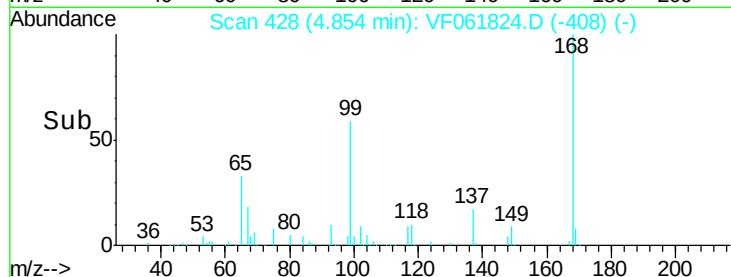
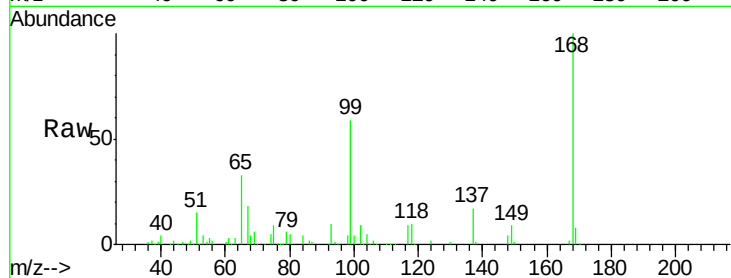




#33
 1,2-Dichloroethane-d4
 Concen: 20.530 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

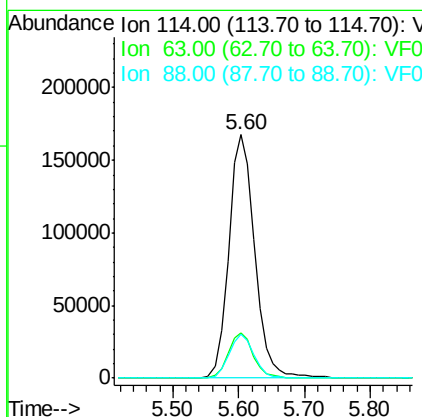
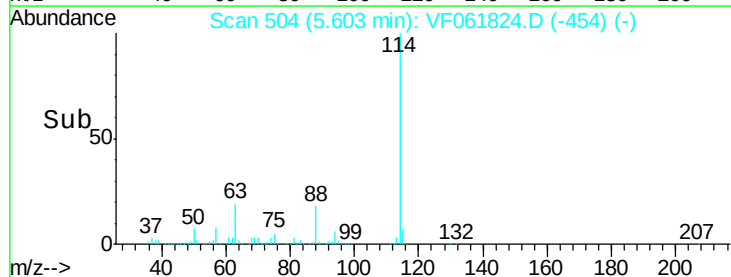
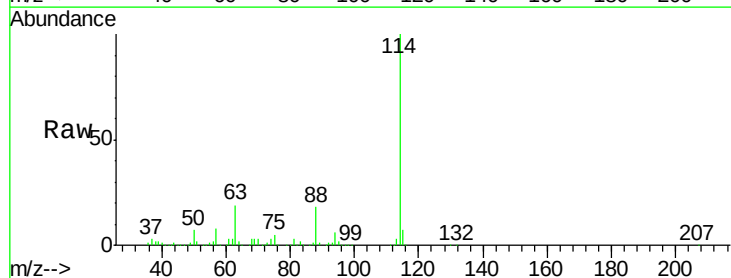
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

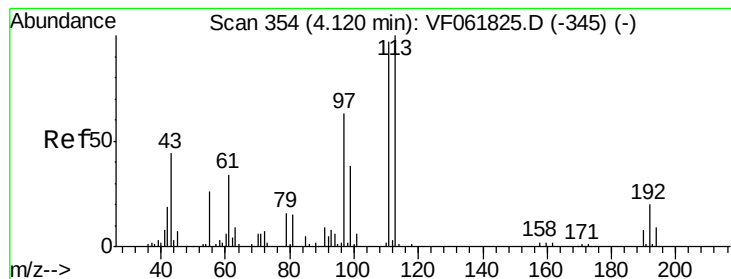
Tot Ion: 65 Resp: 49062
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion: 114 Resp: 462211
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 36.6
 88 18.2 0.0 34.4





#35

Dibromofluoromethane

Concen: 20.100 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

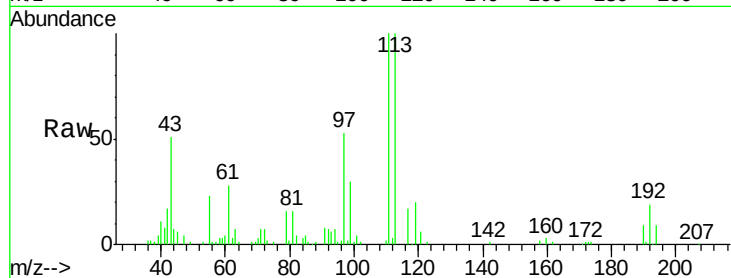
Tot Ion:113 Resp: 68993

Ion Ratio Lower Upper

113 100

111 100.1 78.8 118.2

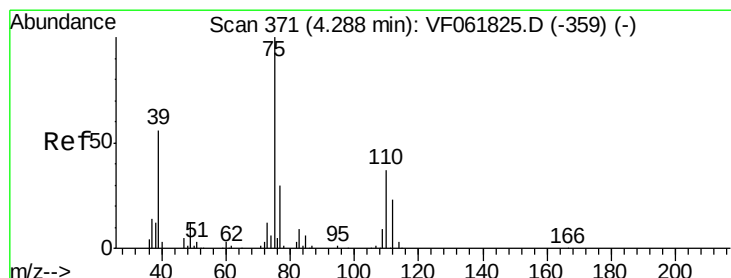
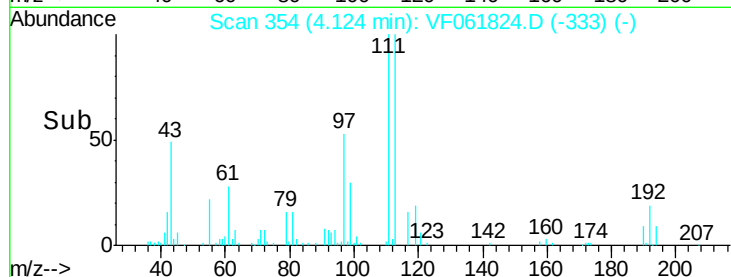
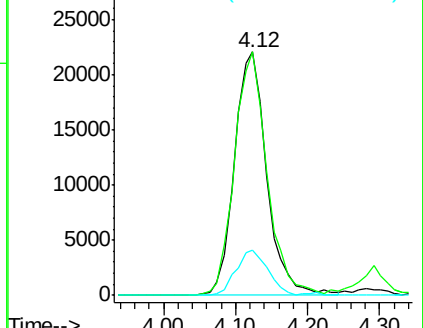
192 18.9 13.4 20.0



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 19.984 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

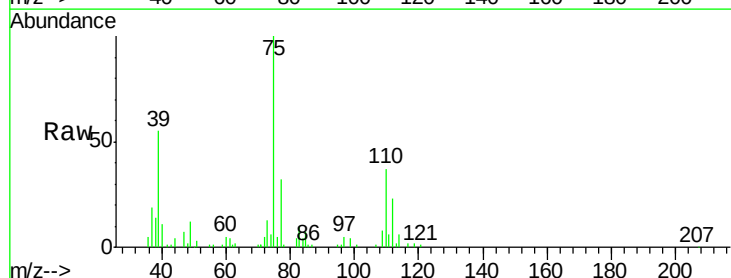
Tgt Ion: 75 Resp: 91501

Ion Ratio Lower Upper

75 100

110 36.8 20.5 61.6

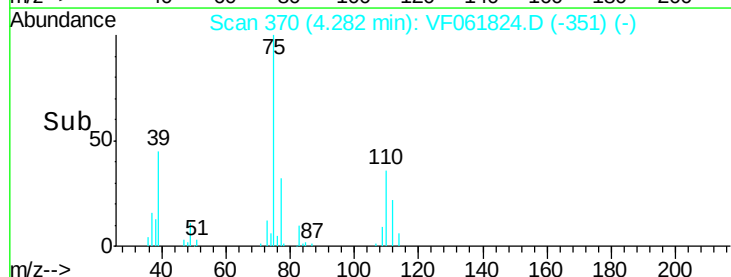
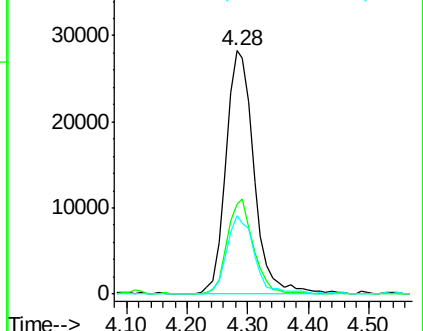
77 32.1 27.0 40.4

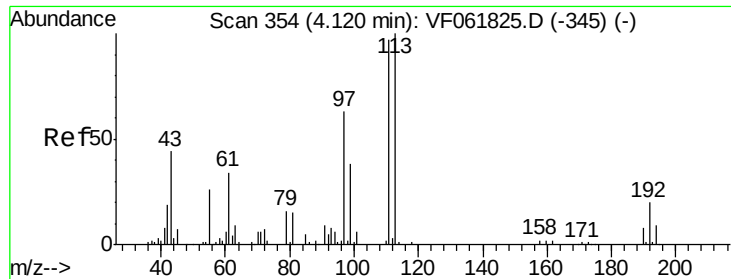


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 18.927 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

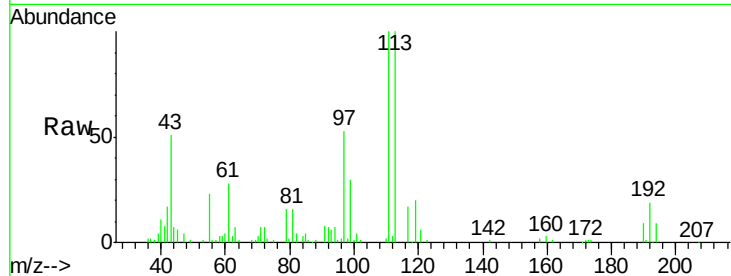
Tot Ion: 43 Resp: 40253

Ion Ratio Lower Upper

43 100

61 55.2 45.7 68.5

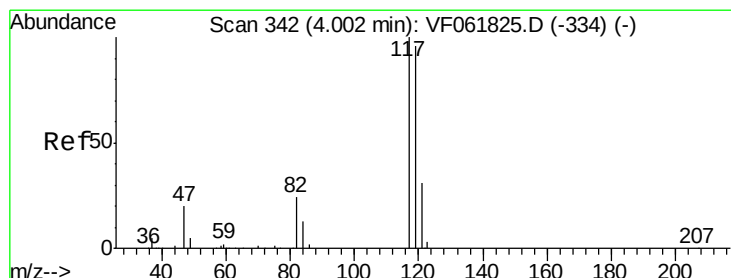
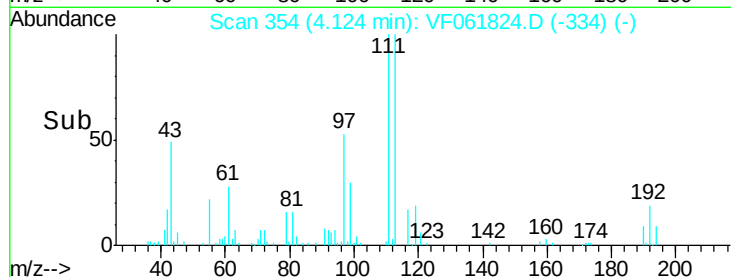
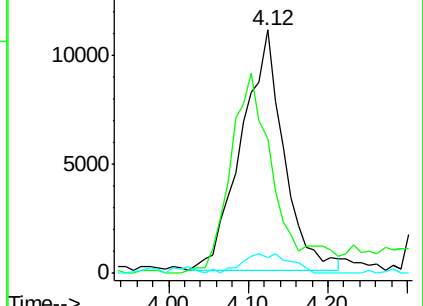
70 6.6 8.5 12.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 19.538 ug/l

RT: 3.99 min Scan# 340

Delta R.T. -0.01 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

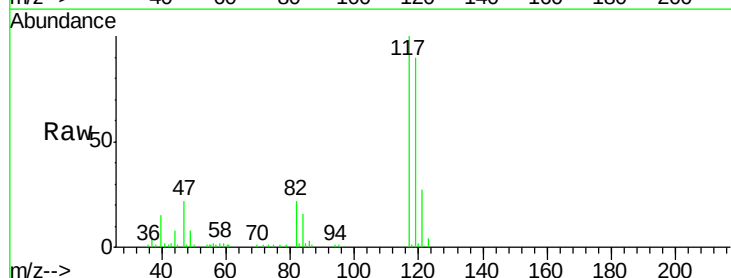
Tgt Ion: 117 Resp: 61772

Ion Ratio Lower Upper

117 100

119 89.7 75.6 113.4

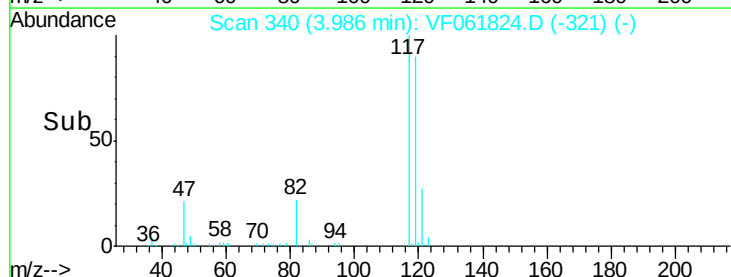
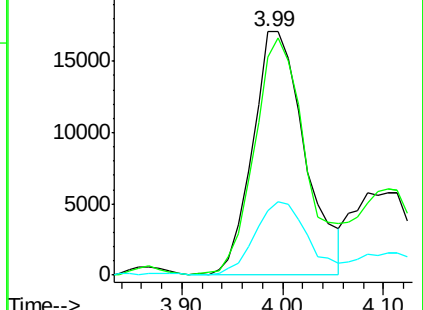
121 26.5 25.2 37.8

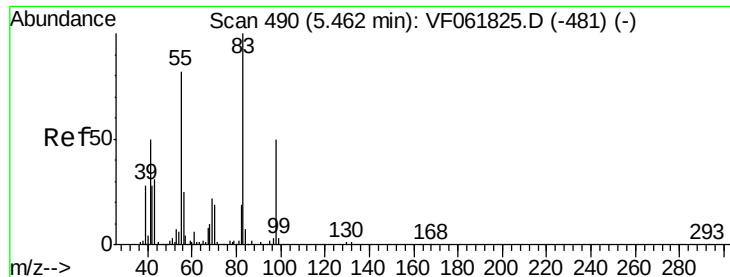


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

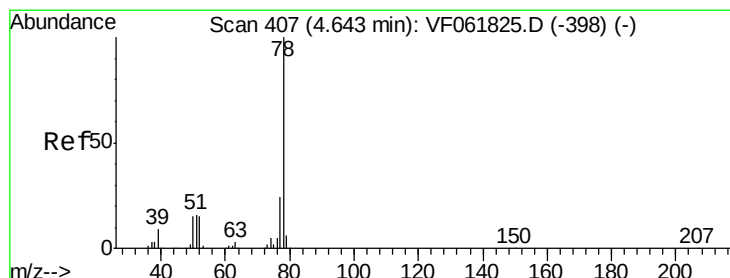
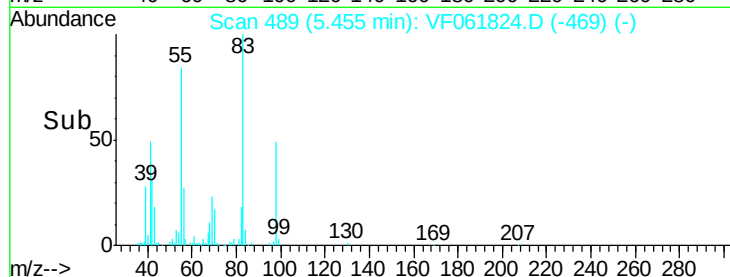
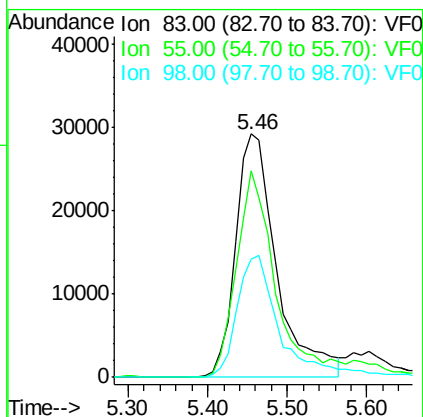
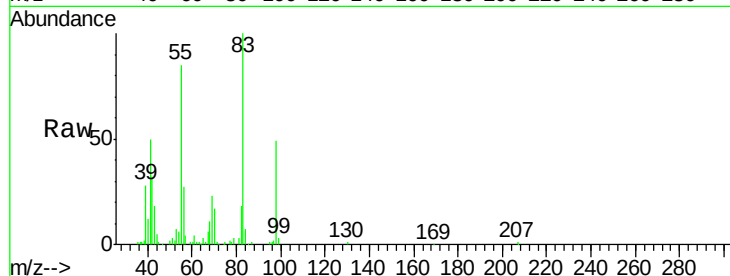




#39
Methylvlcyclohexane
Concen: 19.284 ug/l
RT: 5.46 min Scan# 489
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

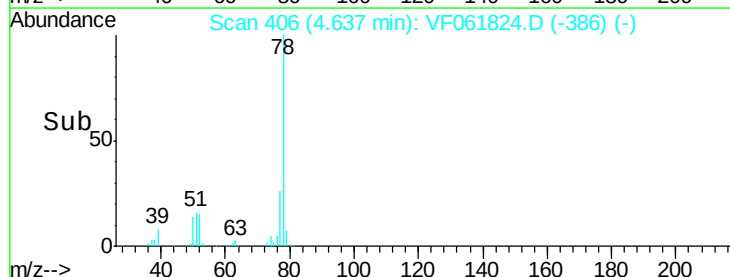
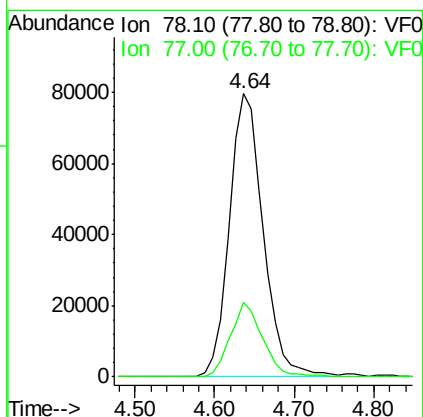
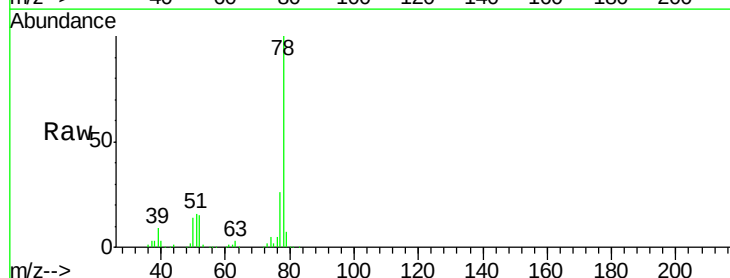
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

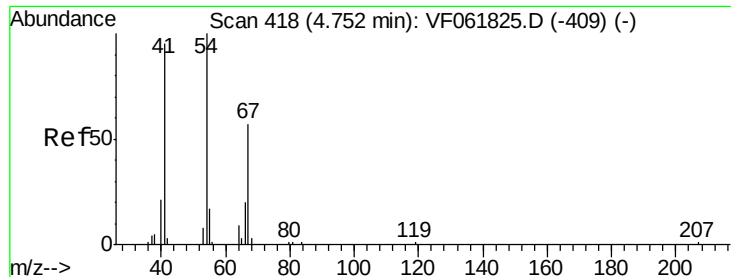
Tot Ion: 83 Resp: 104423
Ion Ratio Lower Upper
83 100
55 84.9 66.6 99.8
98 48.5 40.4 60.6



#40
Benzene
Concen: 19.701 ug/l
RT: 4.64 min Scan# 406
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion: 78 Resp: 235950
Ion Ratio Lower Upper
78 100
77 26.4 19.0 28.6





#41

Methacrylonitrile

Concen: 19.154 ug/l

RT: 4.75 min Scan# 418

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 41 Resp: 20832

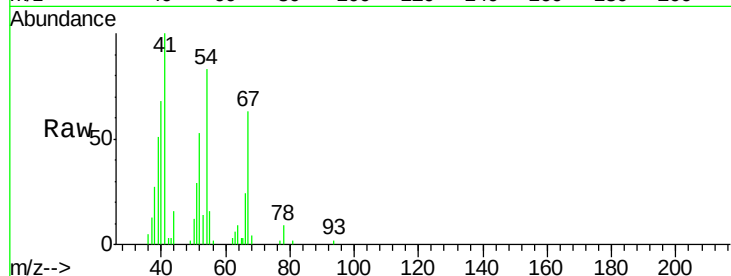
Ion Ratio Lower Upper

41 100

39 50.7 45.3 67.9

67 62.8 49.3 73.9

52 53.5 32.6 49.0#

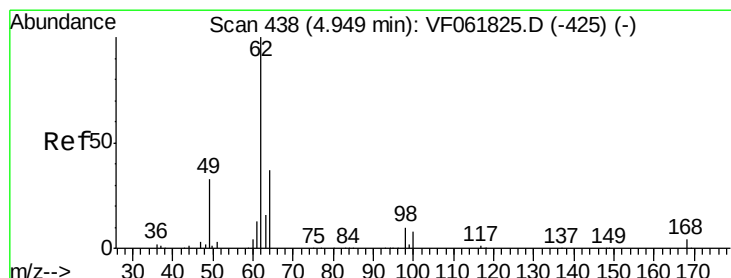
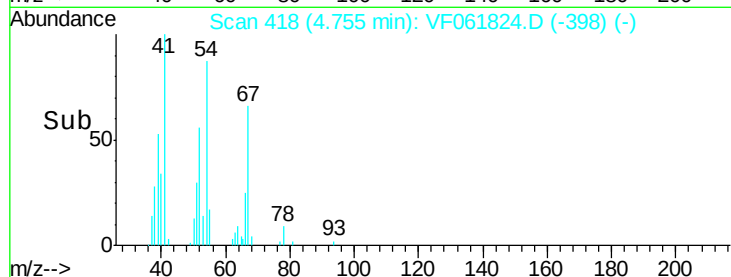
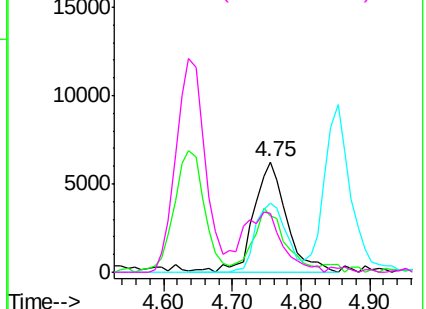


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 20.383 ug/l

RT: 4.95 min Scan# 438

Delta R.T. -0.00 min

Lab File: VF061824.D

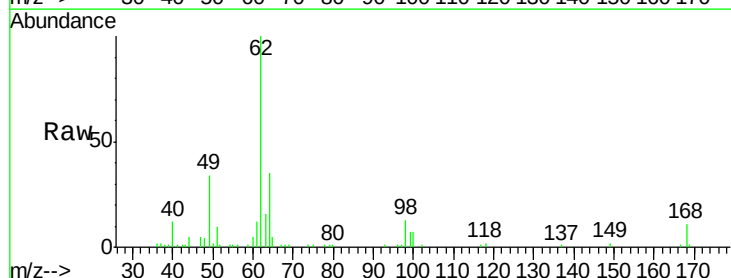
Acq: 4 Mar 2019 17:02

Tgt Ion: 62 Resp: 58394

Ion Ratio Lower Upper

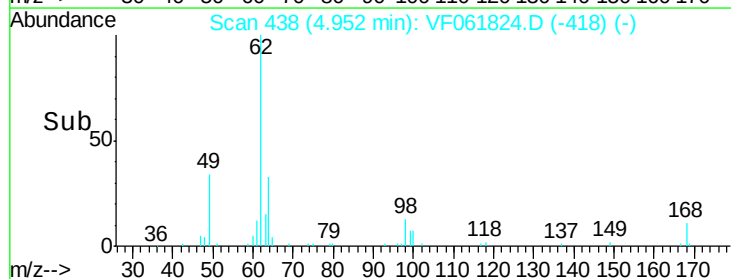
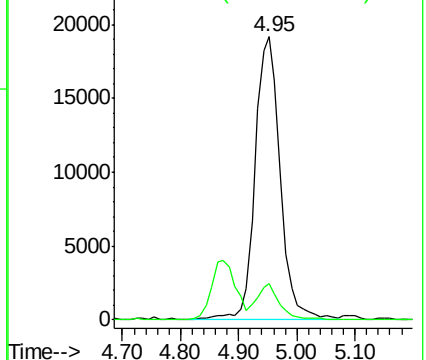
62 100

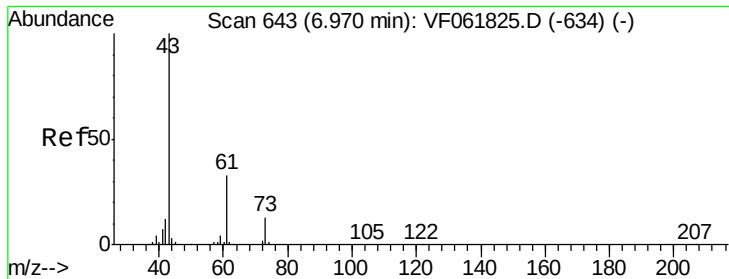
98 12.7 0.0 26.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



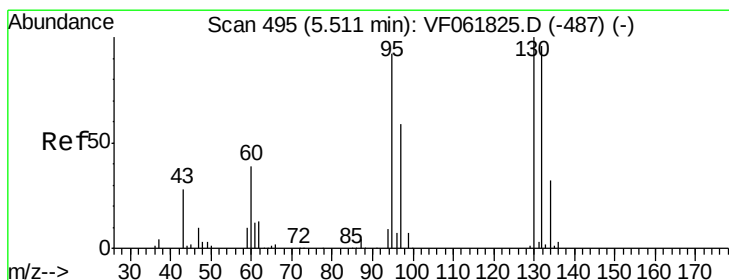
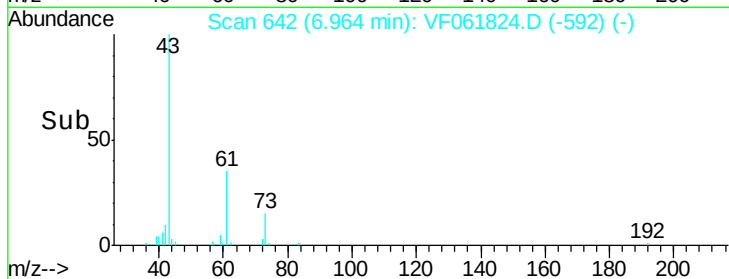
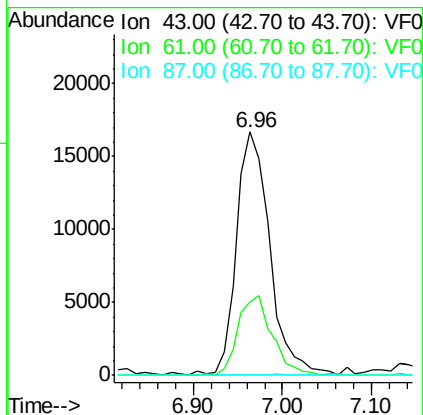
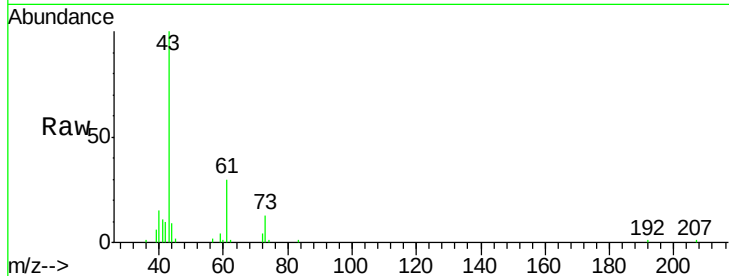


#43

Isopropyl Acetate
 Concen: 17.330 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

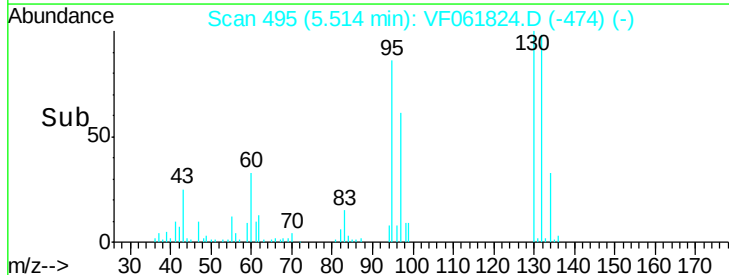
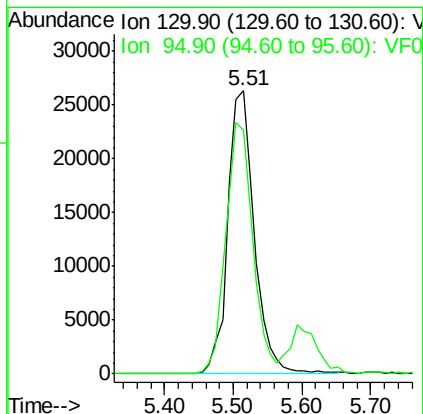
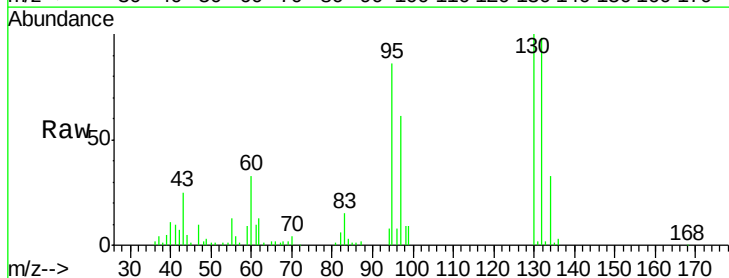
Tot Ion: 43 Resp: 43625
 Ion Ratio Lower Upper
 43 100
 61 30.0 25.8 38.6
 87 0.0 0.4 0.6#

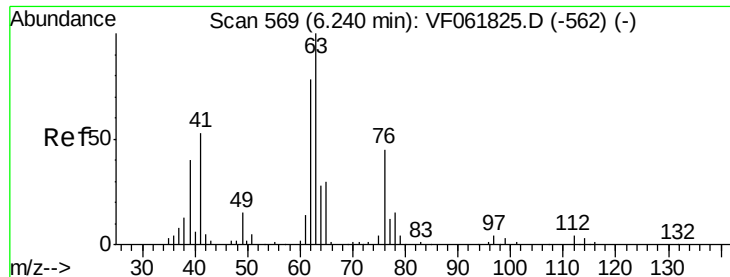


#44

Trichloroethene
 Concen: 18.199 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. 0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion:130 Resp: 70485
 Ion Ratio Lower Upper
 130 100
 95 85.9 0.0 179.4

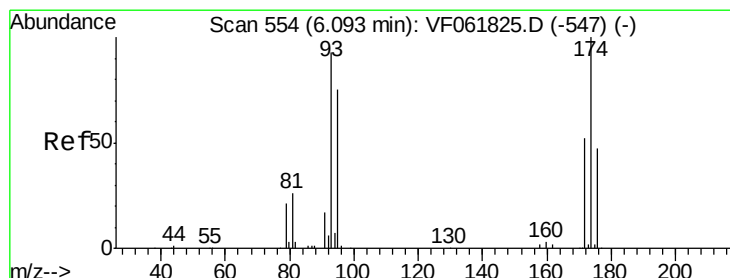
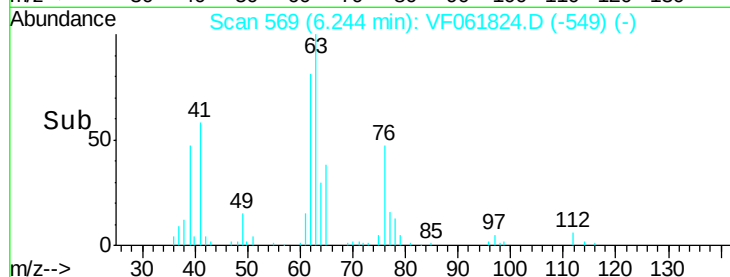
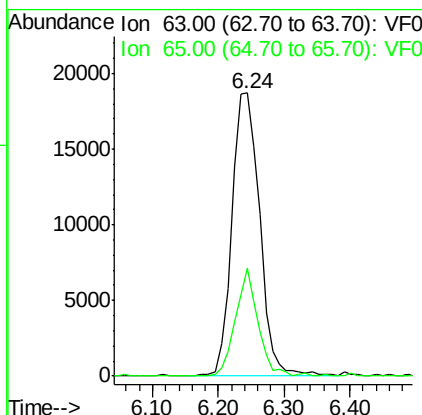
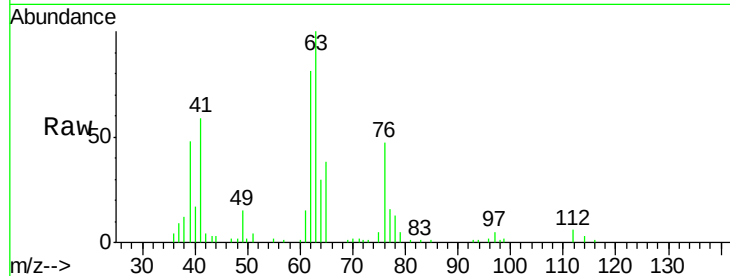




#45
 1,2-Dichloropropane
 Concen: 19.243 ug/l
 RT: 6.24 min Scan# 569
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

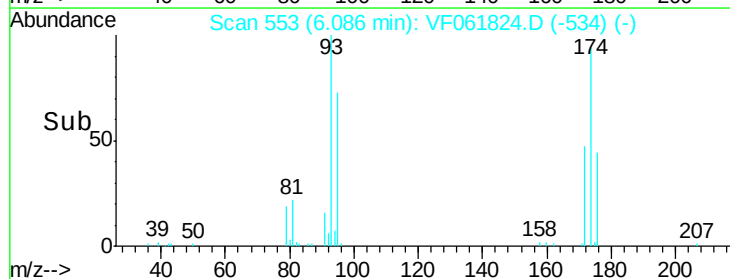
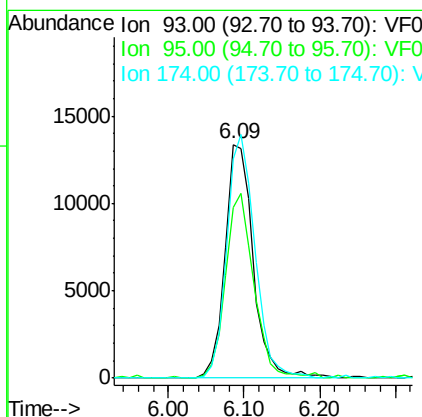
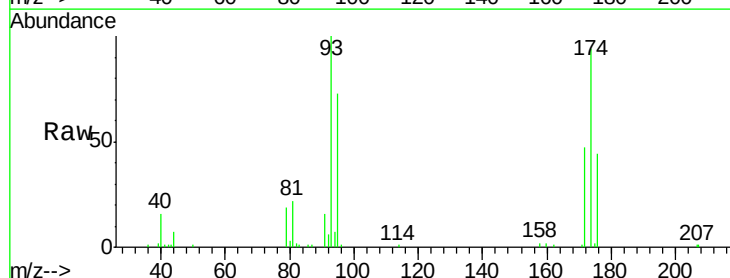
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

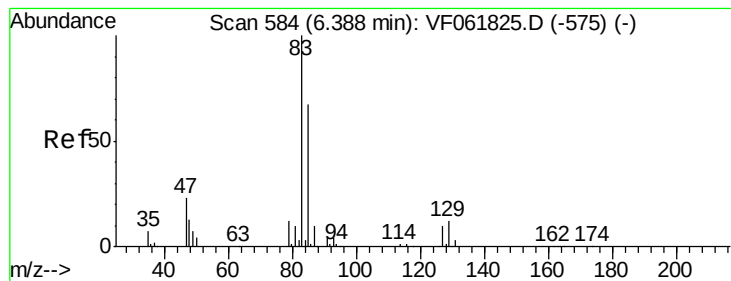
Tot Ion: 63 Resp: 55708
 Ion Ratio Lower Upper
 63 100
 65 38.2 24.9 37.3#



#46
 Dibromomethane
 Concen: 19.329 ug/l
 RT: 6.09 min Scan# 553
 Delta R.T. -0.01 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion: 93 Resp: 34452
 Ion Ratio Lower Upper
 93 100
 95 73.2 69.0 103.6
 174 94.1 99.3 148.9#





#47

Bromodichloromethane

Concen: 19.621 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

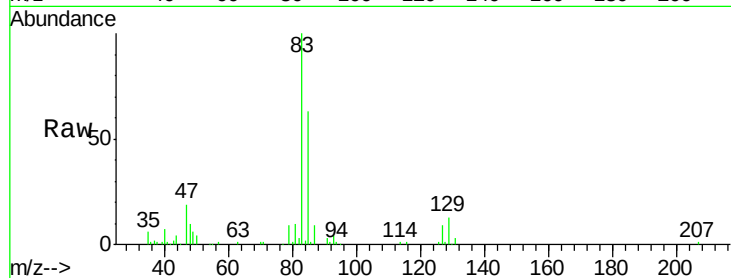
Tot Ion: 83 Resp: 76585

Ion Ratio Lower Upper

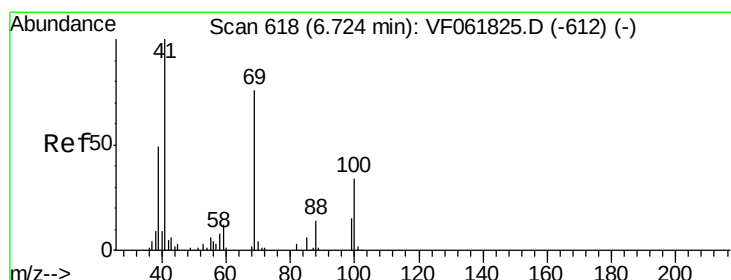
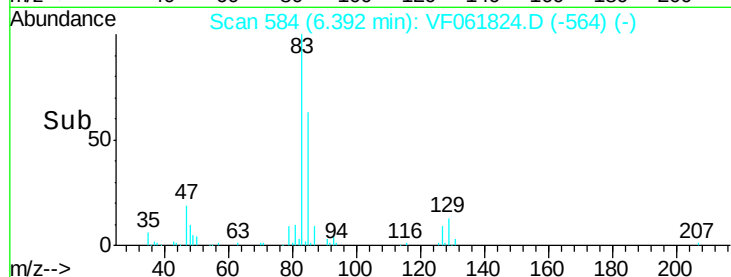
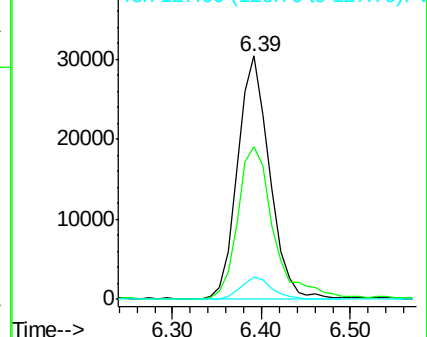
83 100

85 62.5 53.4 80.2

127 9.2 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 19.297 ug/l

RT: 6.73 min Scan# 618

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

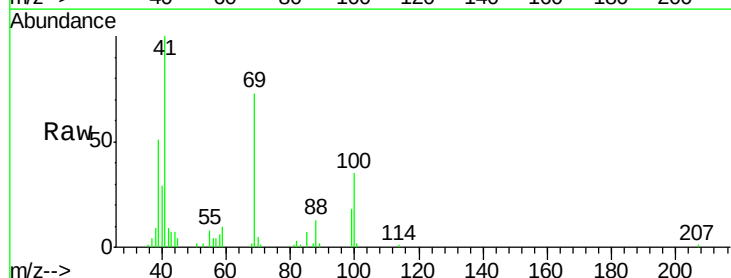
Tgt Ion: 41 Resp: 29234

Ion Ratio Lower Upper

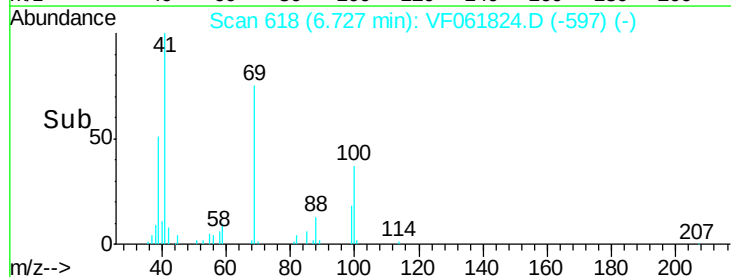
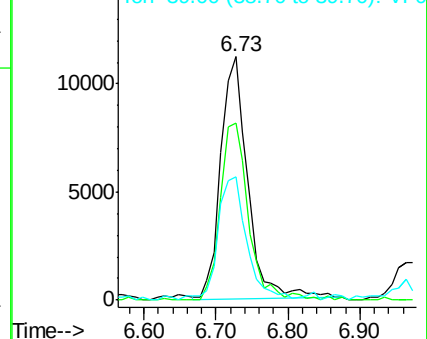
41 100

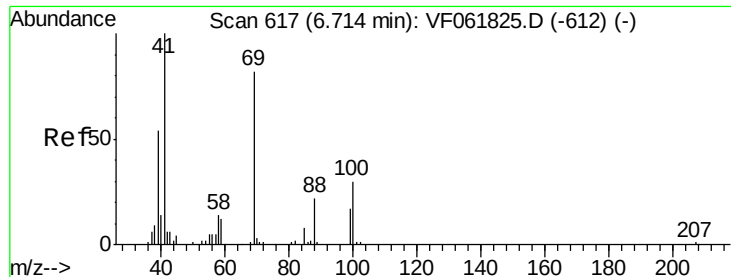
69 72.6 60.4 90.6

39 50.7 43.7 65.5



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 365.842 ug/l

RT: 6.72 min Scan# 617

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

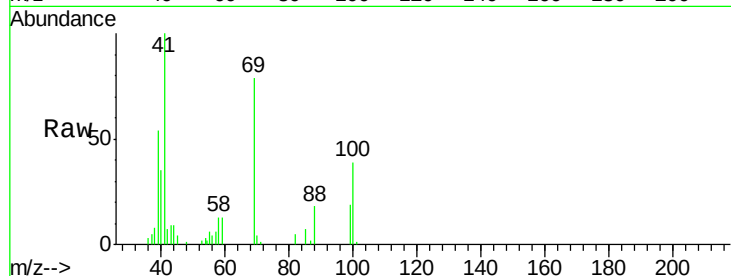
Tot Ion: 88 Resp: 5210

Ion Ratio Lower Upper

88 100

43 49.5 32.3 48.5#

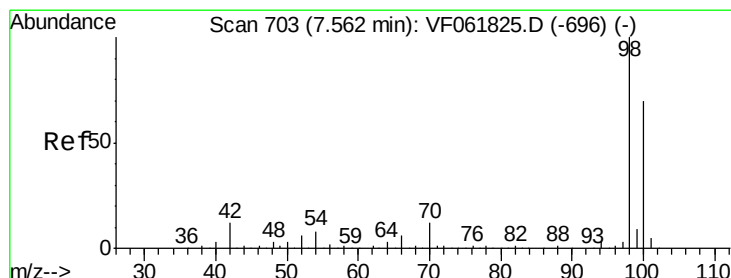
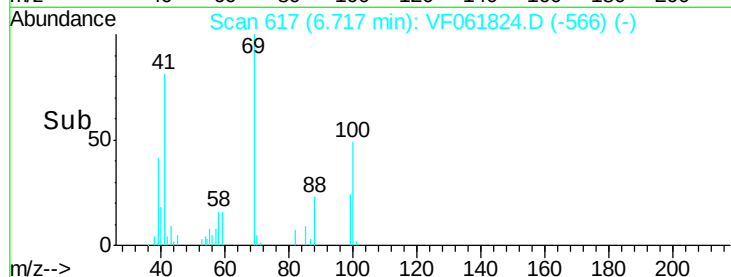
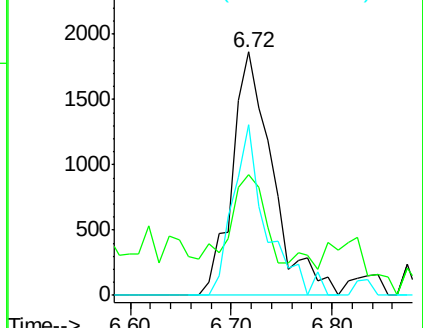
58 69.8 59.4 89.2



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 20.015 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF061824.D

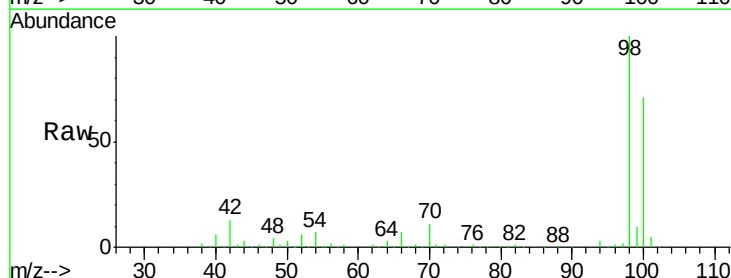
Acq: 4 Mar 2019 17:02

Tgt Ion: 98 Resp: 197494

Ion Ratio Lower Upper

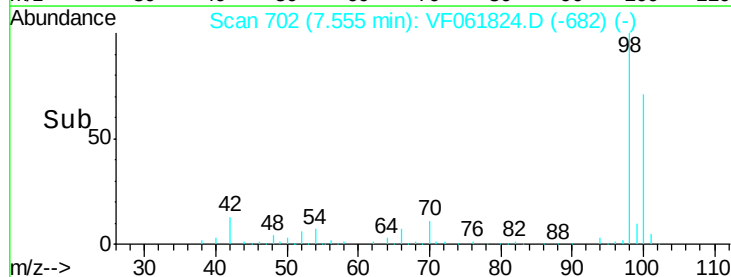
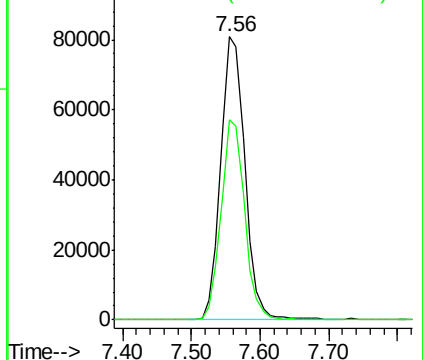
98 100

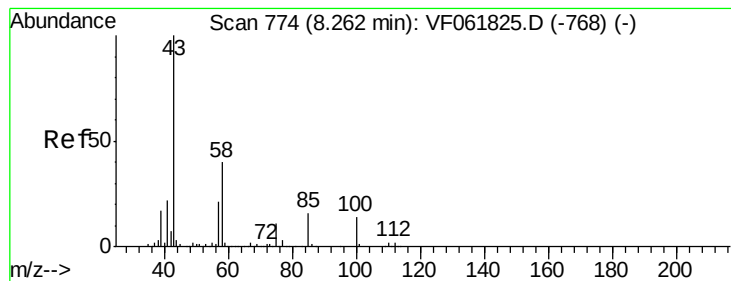
100 70.7 55.4 83.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 90.527 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

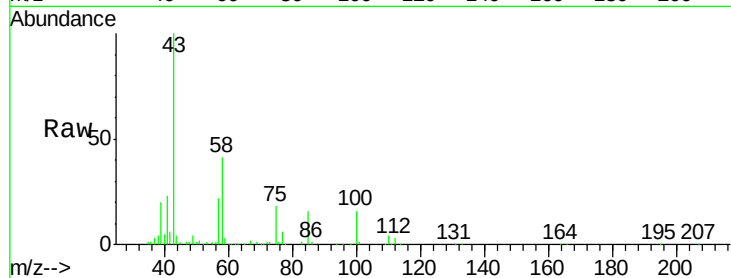
VSTDIC020

Tot Ion: 43 Resp: 162835

Ion Ratio Lower Upper

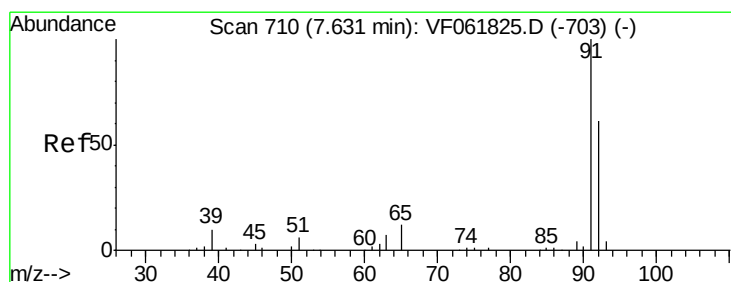
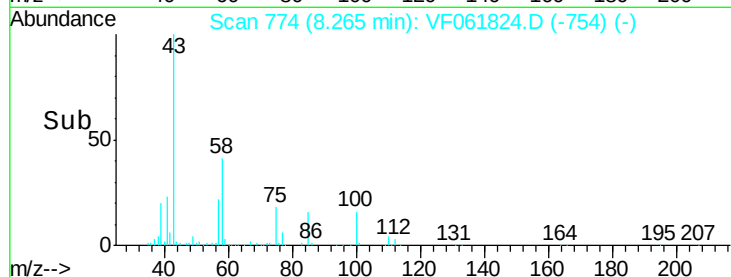
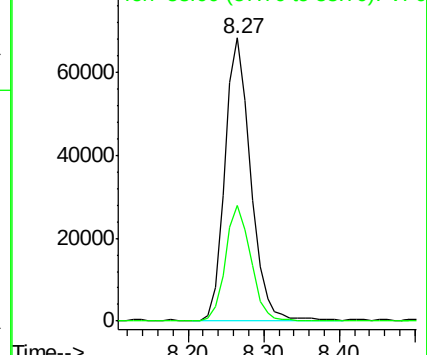
43 100

58 40.7 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 19.063 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061824.D

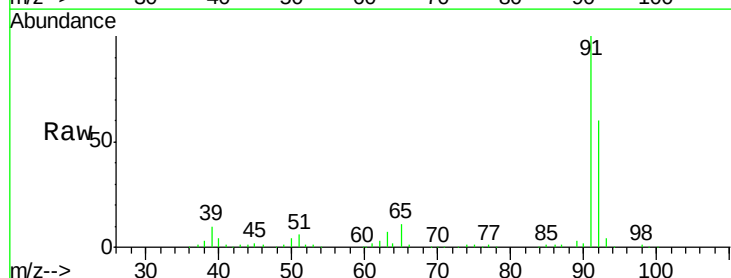
Acq: 4 Mar 2019 17:02

Tgt Ion: 92 Resp: 138464

Ion Ratio Lower Upper

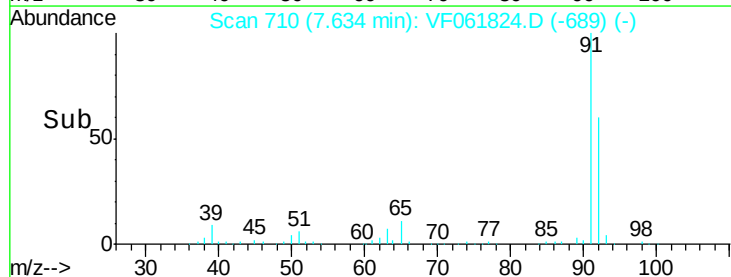
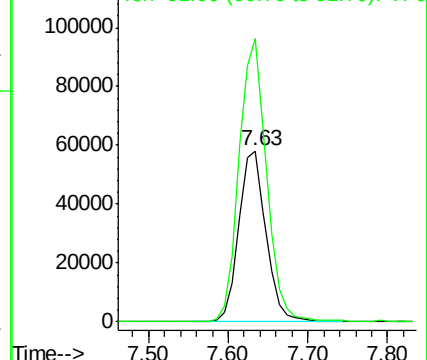
92 100

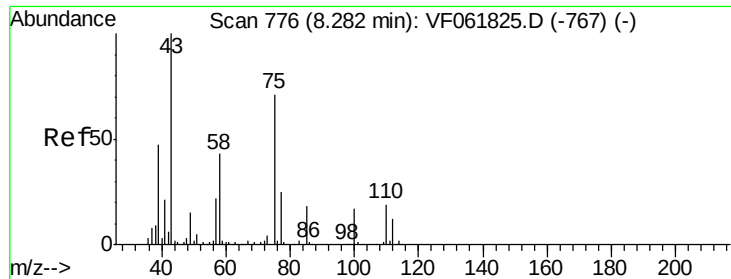
91 165.6 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

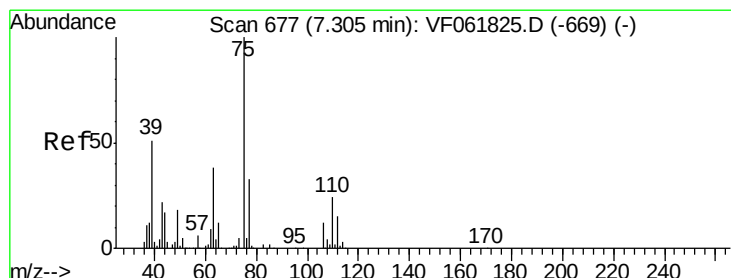
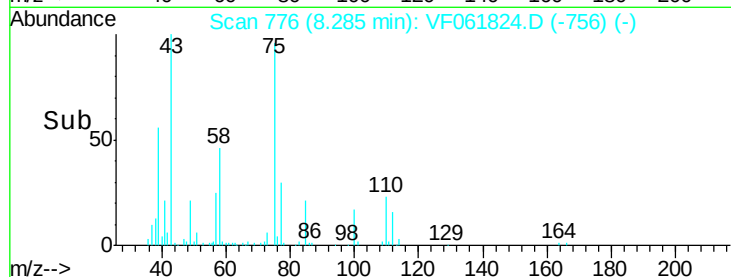
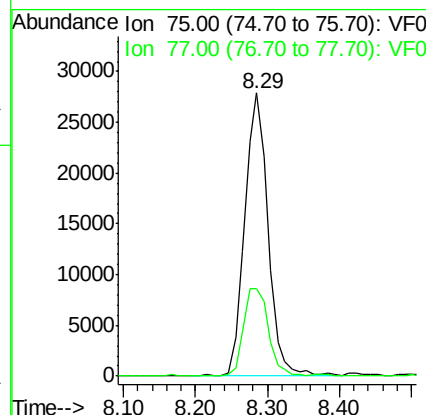
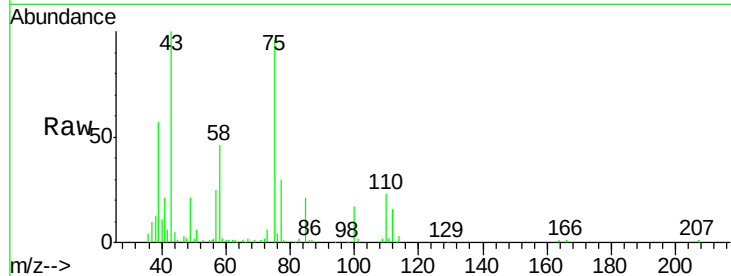




#53
t-1,3-Dichloropropene
Concen: 19.461 ug/l
RT: 8.29 min Scan# 776
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

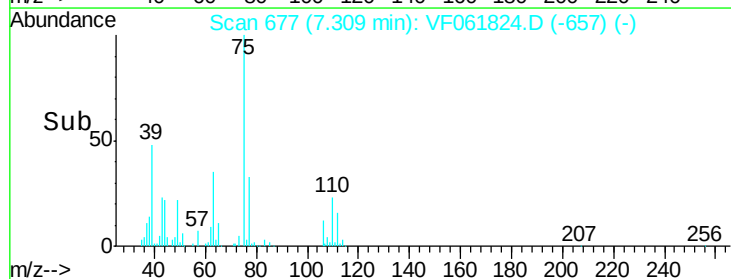
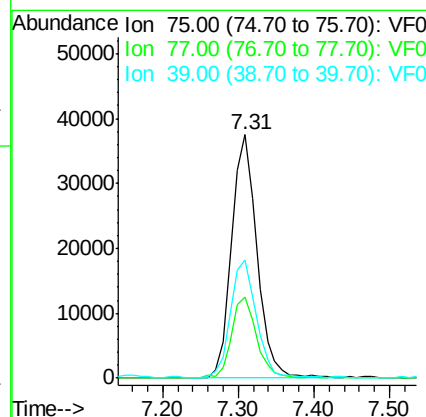
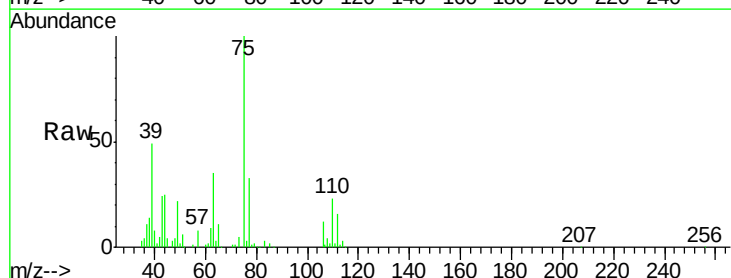
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

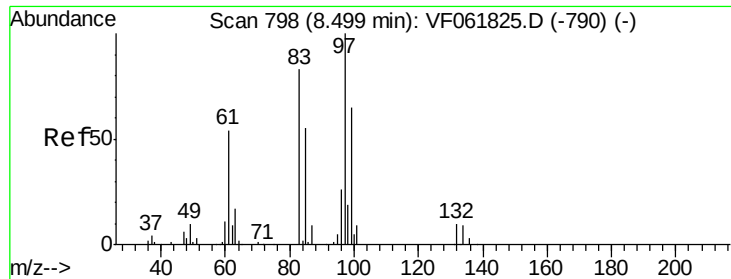
Tot Ion: 75 Resp: 63220
Ion Ratio Lower Upper
75 100
77 31.0 26.2 39.2



#54
cis-1,3-Dichloropropene
Concen: 20.145 ug/l
RT: 7.31 min Scan# 677
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion: 75 Resp: 87169
Ion Ratio Lower Upper
75 100
77 33.3 26.4 39.6
39 48.7 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 18.458 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 97 Resp: 39392

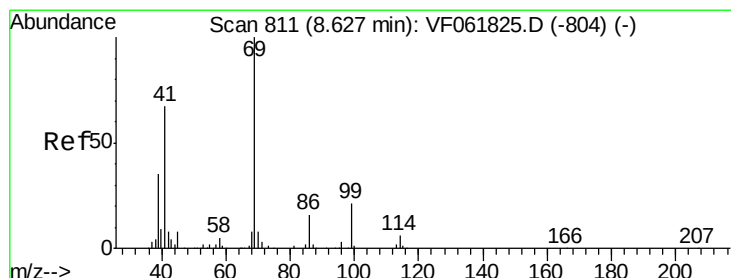
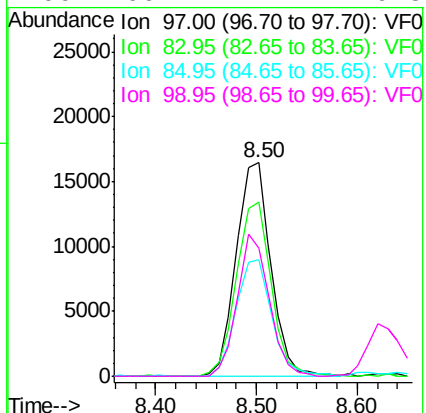
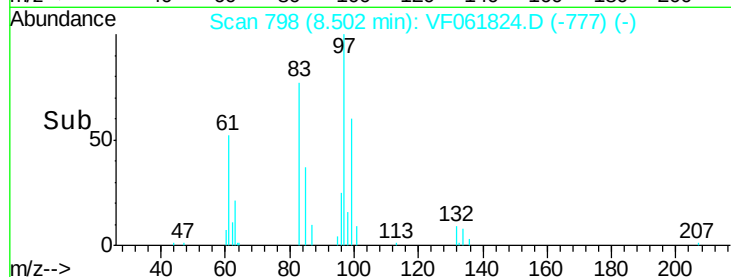
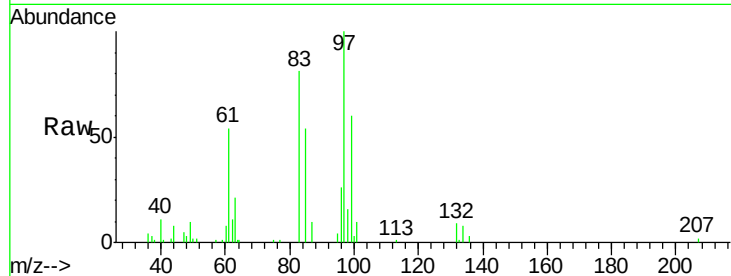
Ion	Ratio	Lower	Upper
97	100		
83	81.4	69.2	103.8
85	54.4	43.0	64.4
99	60.1	47.2	70.8

97 100

83 81.4 69.2 103.8

85 54.4 43.0 64.4

99 60.1 47.2 70.8



#56

Ethyl methacrylate

Concen: 17.749 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

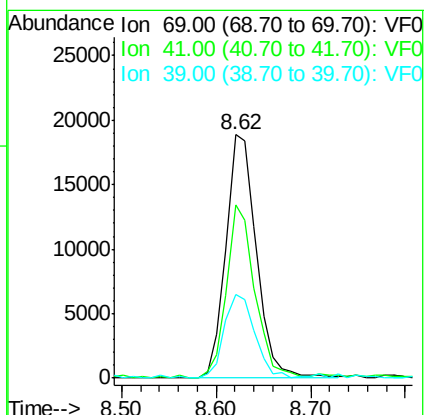
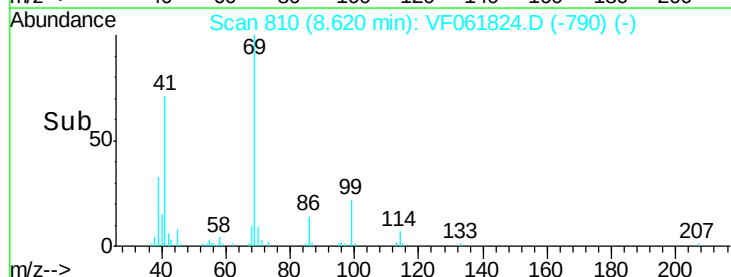
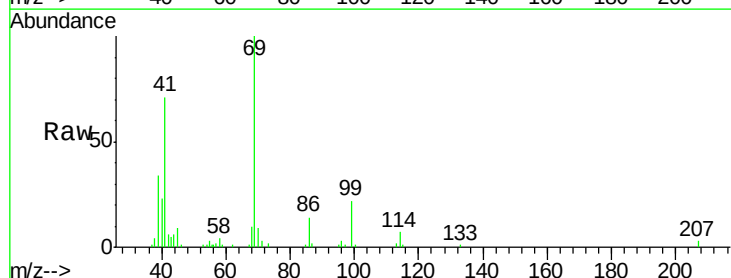
Tgt Ion: 69 Resp: 42171

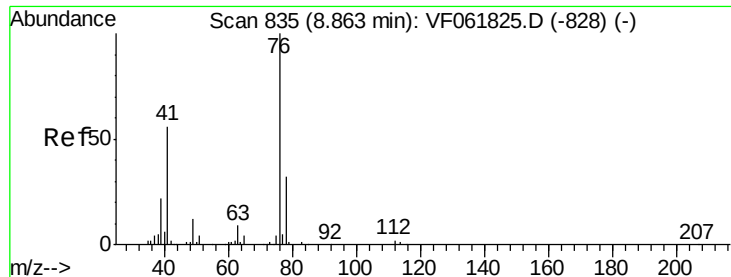
Ion	Ratio	Lower	Upper
69	100		
41	71.3	52.9	79.3
39	34.3	24.5	36.7

69 100

41 71.3 52.9 79.3

39 34.3 24.5 36.7





#57

1,3-Dichloropropane

Concen: 18.012 ug/l

RT: 8.86 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

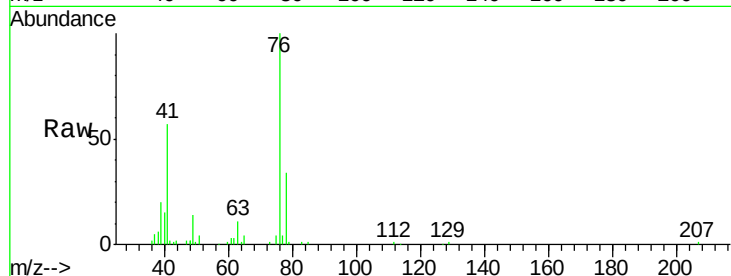
VSTDIC020

Tot Ion: 76 Resp: 64160

Ion Ratio Lower Upper

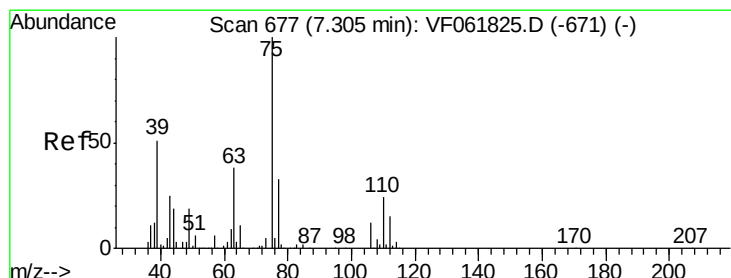
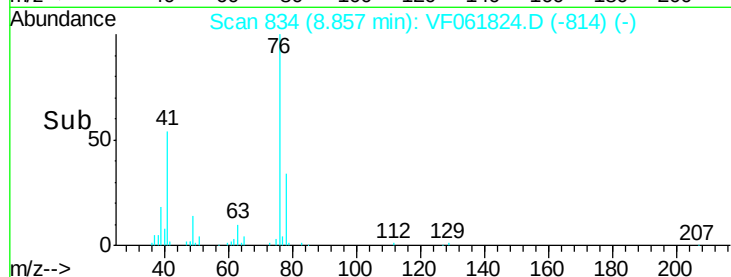
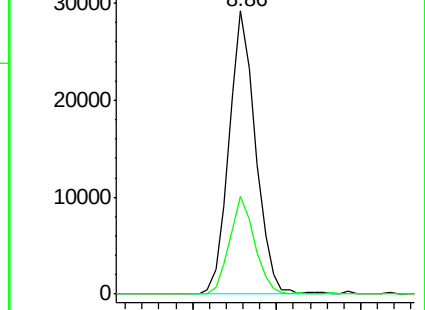
76 100

78 34.4 27.8 41.6



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 86.274 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.00 min

Lab File: VF061824.D

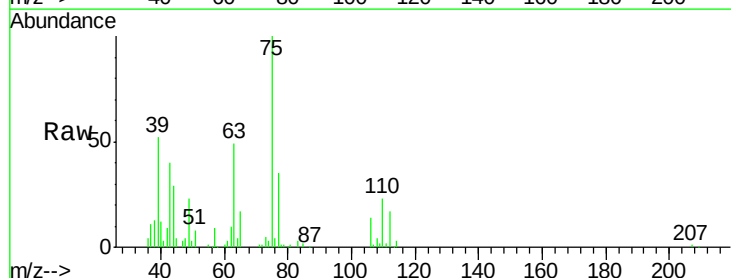
Acq: 4 Mar 2019 17:02

Tgt Ion: 63 Resp: 35368

Ion Ratio Lower Upper

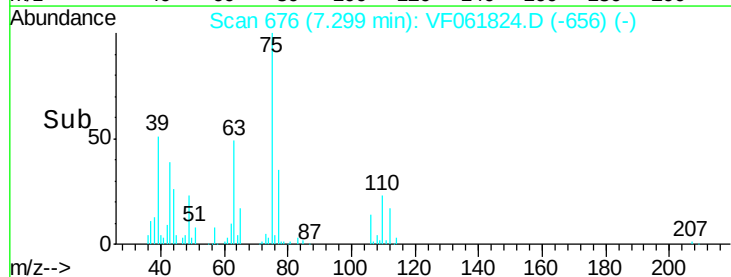
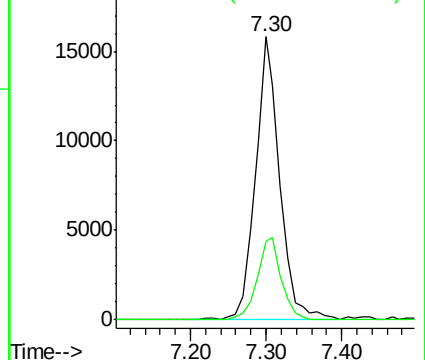
63 100

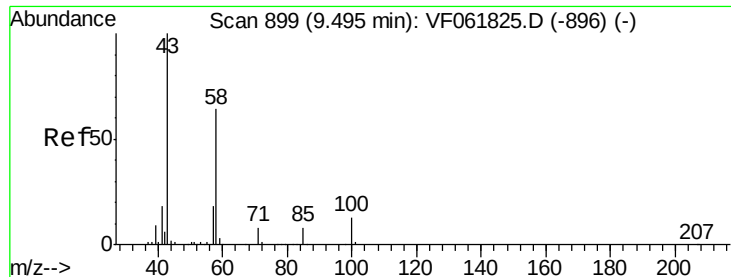
106 27.9 24.6 36.8



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

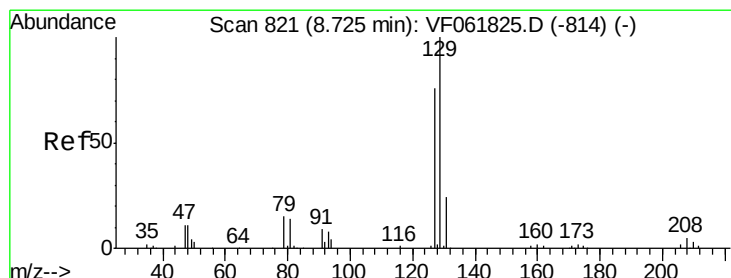
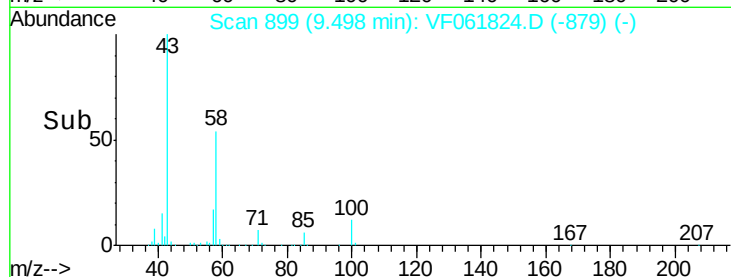
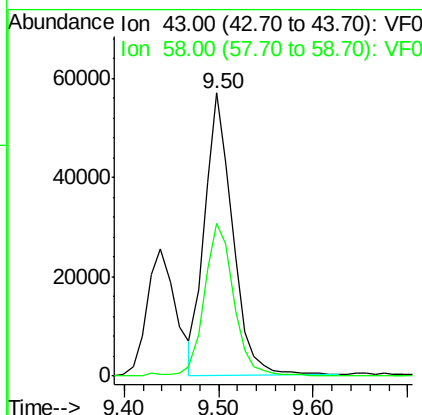
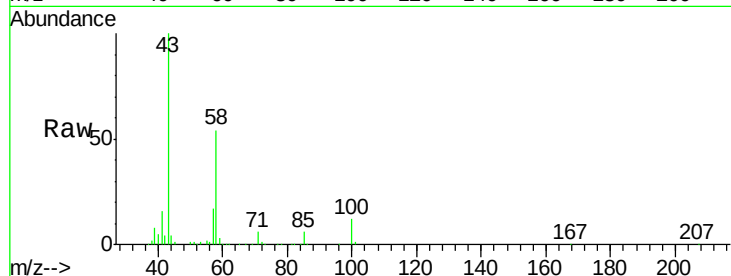




#59
2-Hexanone
Concen: 92.165 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

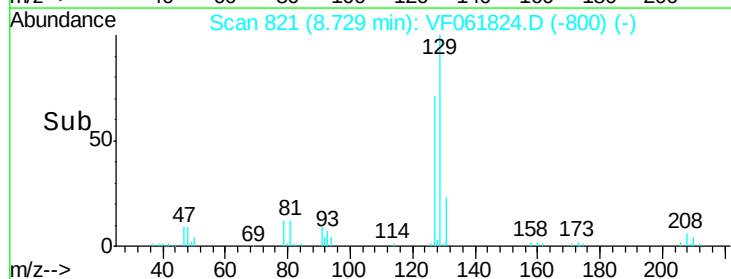
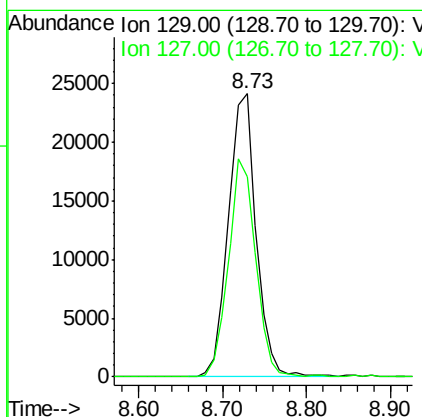
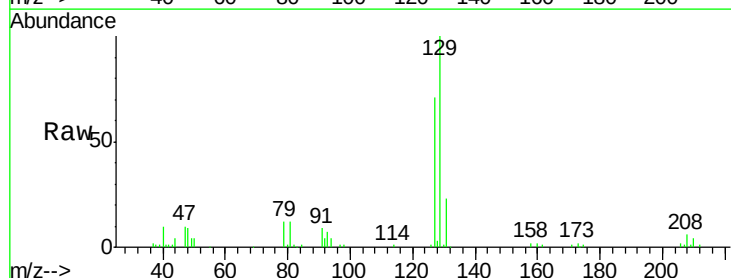
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

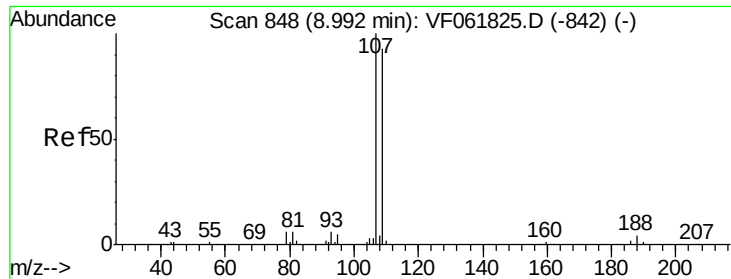
Tot Ion: 43 Resp: 116208
Ion Ratio Lower Upper
43 100
58 54.0 28.5 85.5



#60
Dibromochloromethane
Concen: 18.701 ug/l
RT: 8.73 min Scan# 821
Delta R.T. 0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion: 129 Resp: 55548
Ion Ratio Lower Upper
129 100
127 70.8 37.8 113.4





#61

1,2-Dibromoethane

Concen: 17.950 ug/l

RT: 9.00 min Scan# 848

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

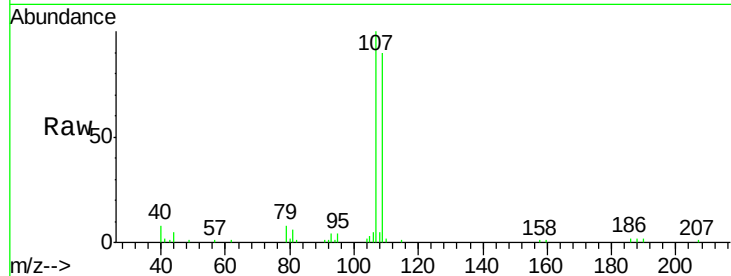
VSTDIC020

Tot Ion:107 Resp: 41550

Ion Ratio Lower Upper

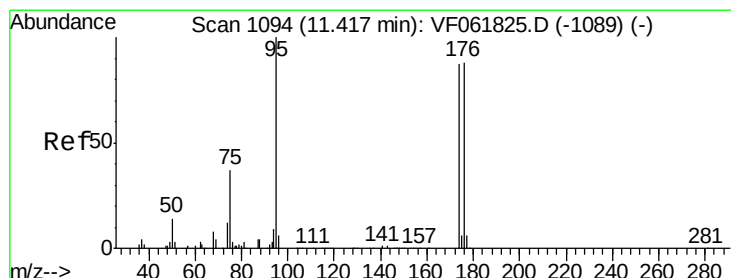
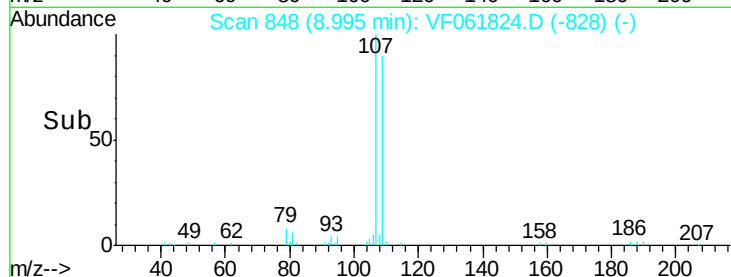
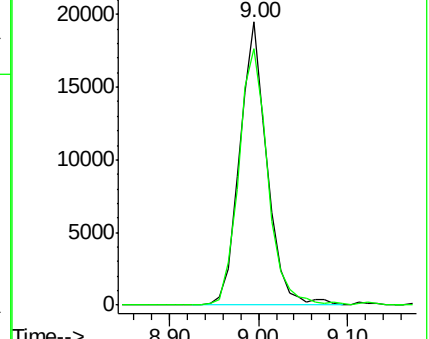
107 100

109 90.4 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 19.364 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

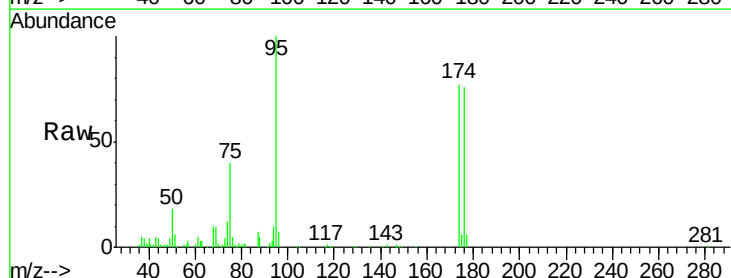
Tgt Ion: 95 Resp: 77311

Ion Ratio Lower Upper

95 100

174 77.1 0.0 165.8

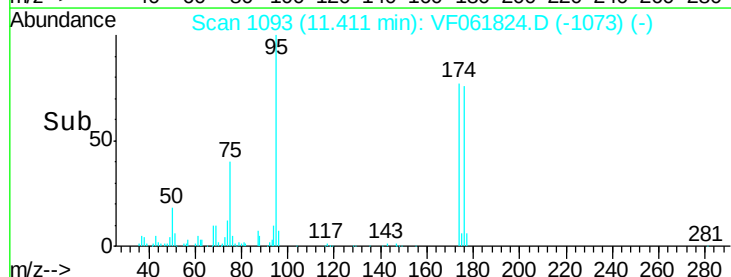
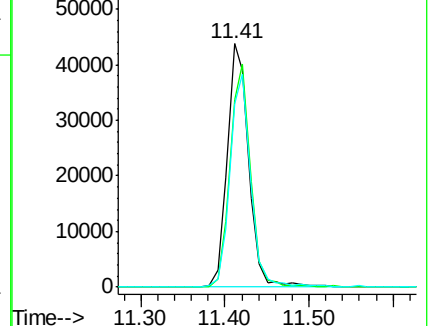
176 75.5 0.0 167.0

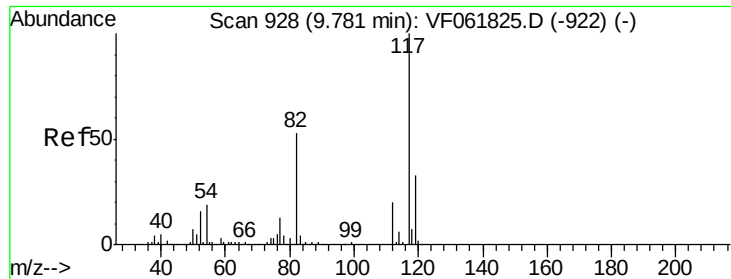


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

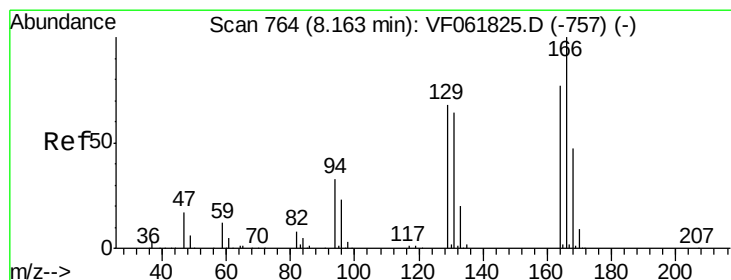
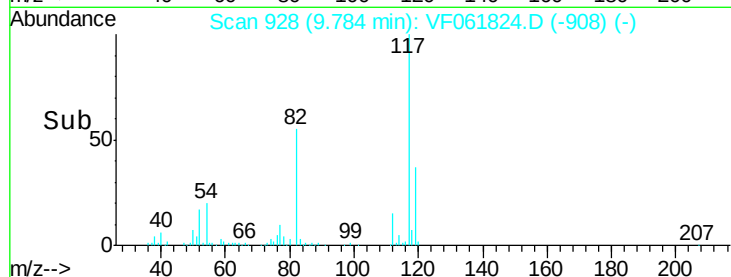
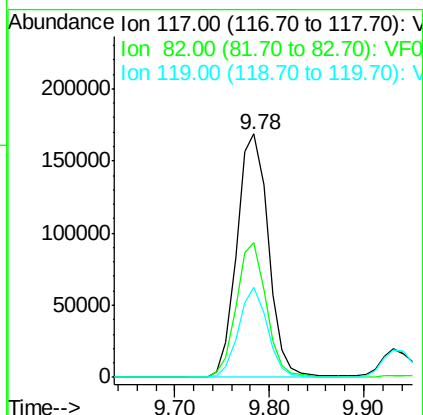
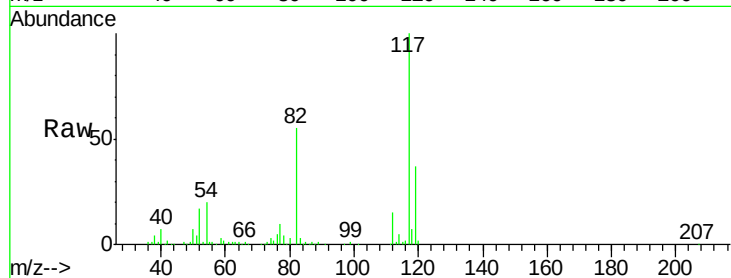




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

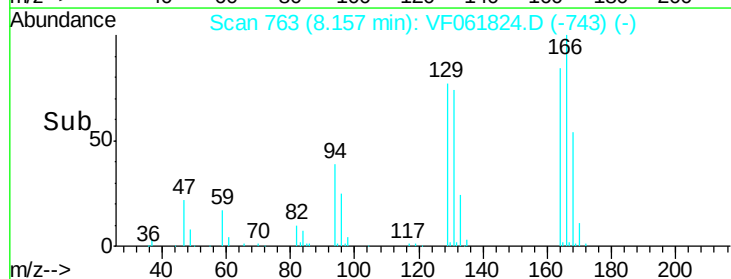
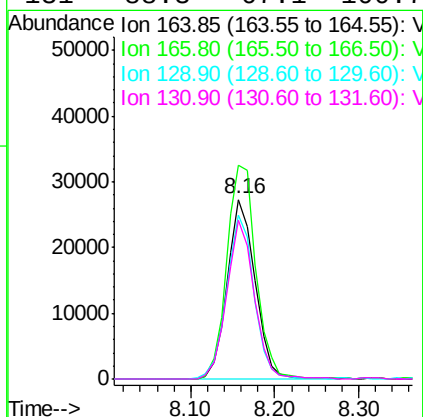
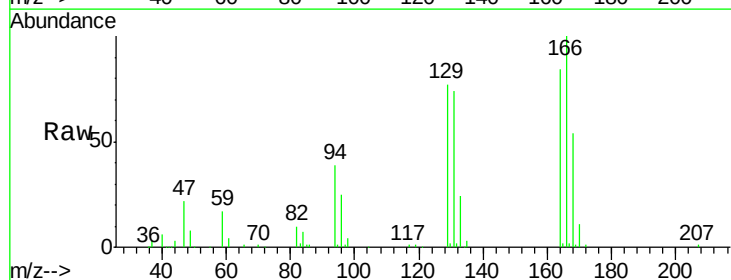
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

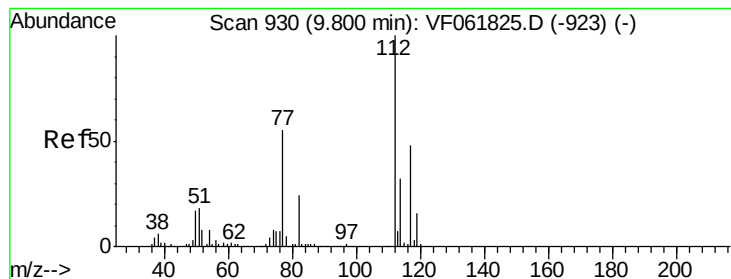
Tot Ion:117 Resp: 391895
Ion Ratio Lower Upper
117 100
82 55.2 39.3 58.9
119 36.9 26.6 40.0



#64
Tetrachloroethene
Concen: 19.657 ug/l
RT: 8.16 min Scan# 763
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion:164 Resp: 62966
Ion Ratio Lower Upper
164 100
166 119.0 103.9 155.9
129 91.6 71.3 106.9
131 88.3 67.1 100.7





#65

Chlorobenzene

Concen: 19.542 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

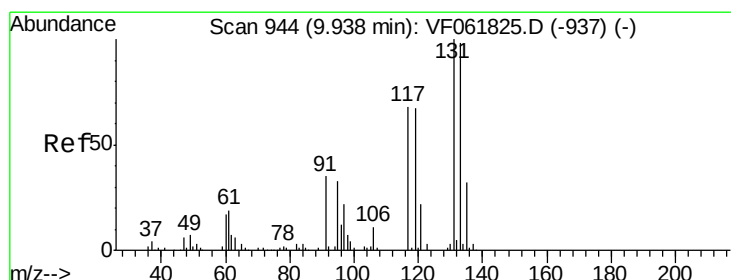
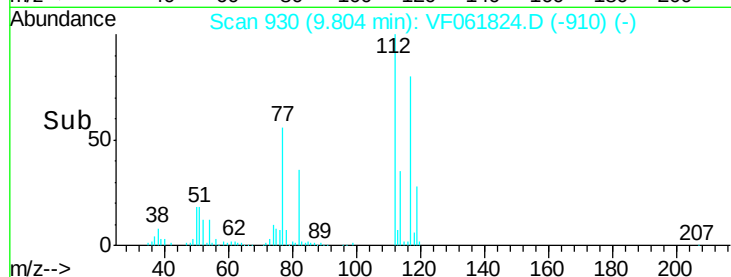
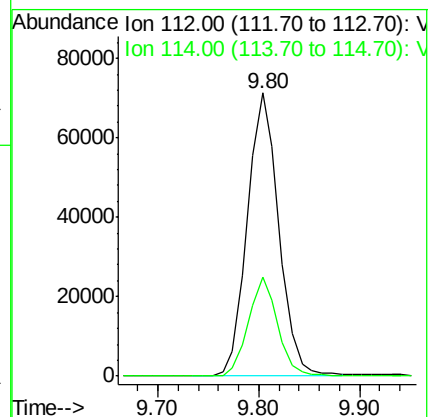
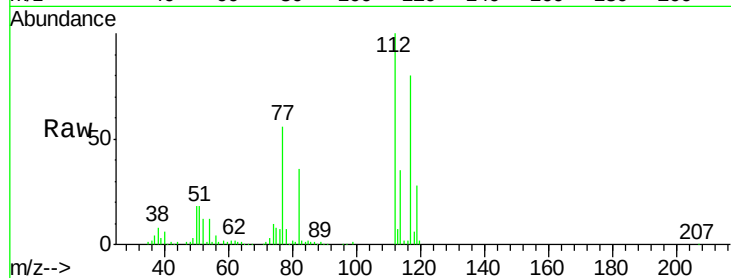
VSTDIC020

Tot Ion:112 Resp: 155404

Ion Ratio Lower Upper

112 100

114 35.0 26.2 39.2



#66

1,1,1,2-Tetrachloroethane

Concen: 20.074 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

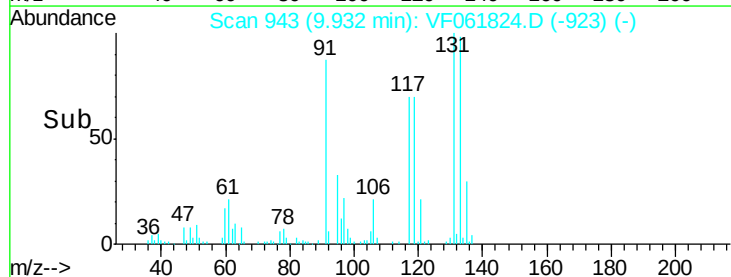
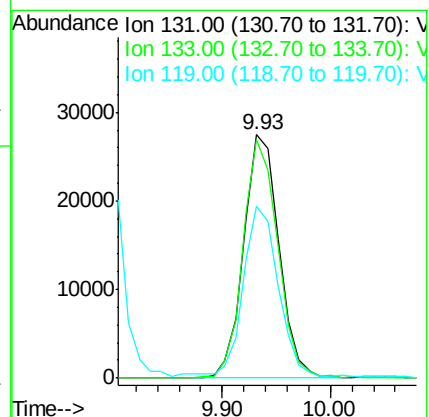
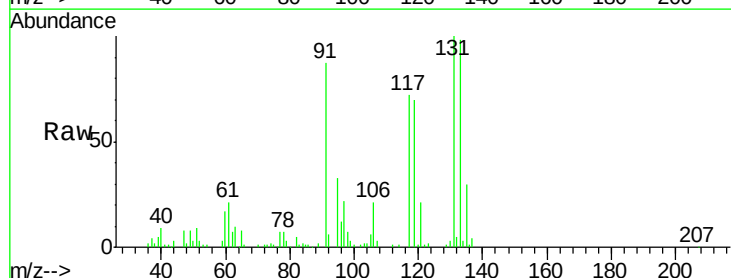
Tgt Ion:131 Resp: 62553

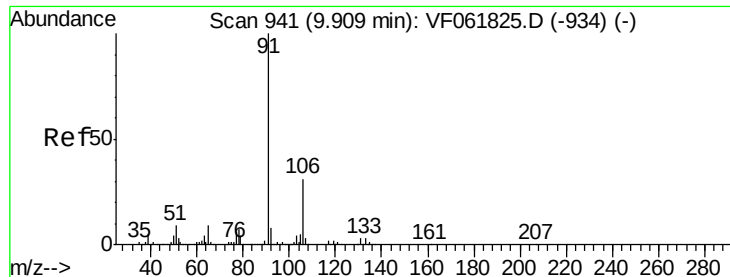
Ion Ratio Lower Upper

131 100

133 98.0 48.9 146.6

119 70.4 34.8 104.3





#67

Ethyl Benzene

Concen: 19.867 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

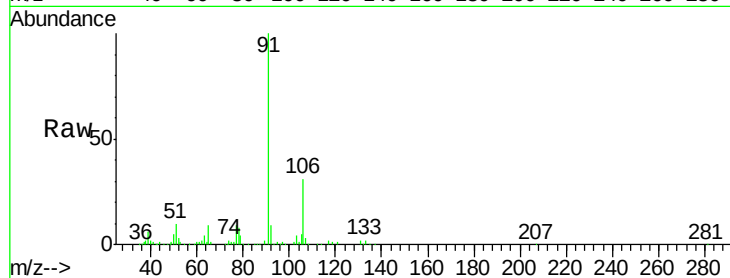
VSTDIC020

Tot Ion: 91 Resp: 262739

Ion Ratio Lower Upper

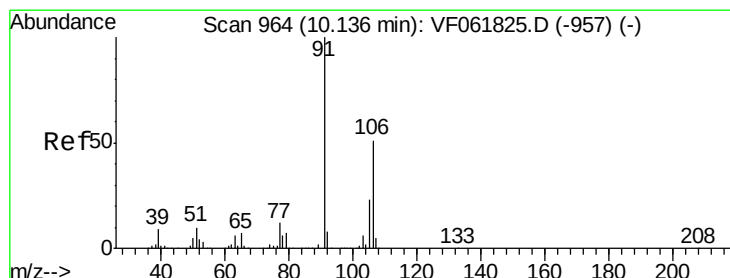
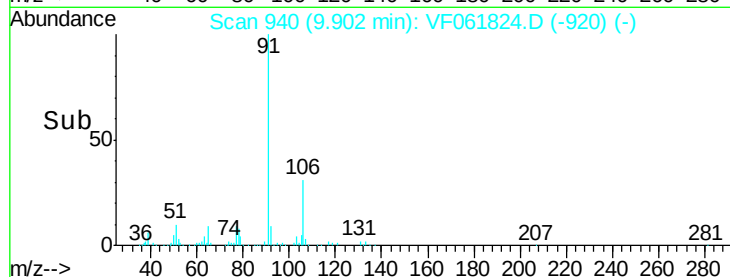
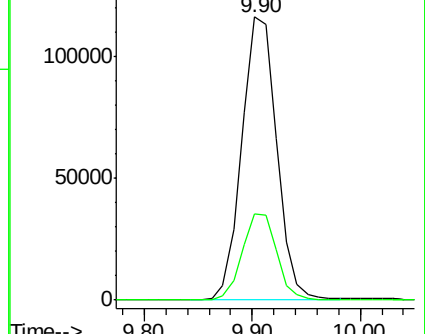
91 100

106 30.6 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 39.682 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF061824.D

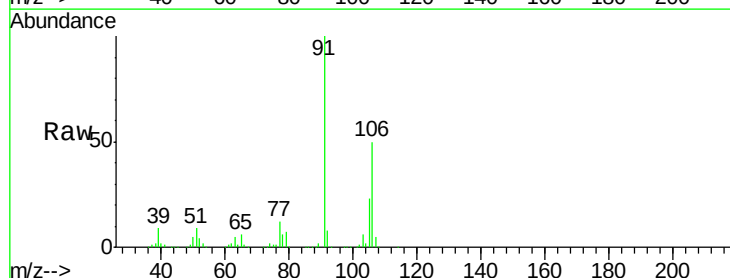
Acq: 4 Mar 2019 17:02

Tgt Ion: 106 Resp: 200843

Ion Ratio Lower Upper

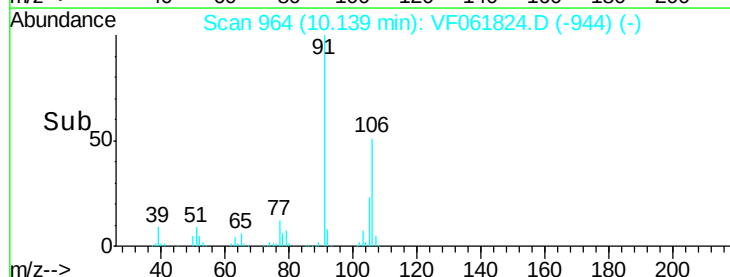
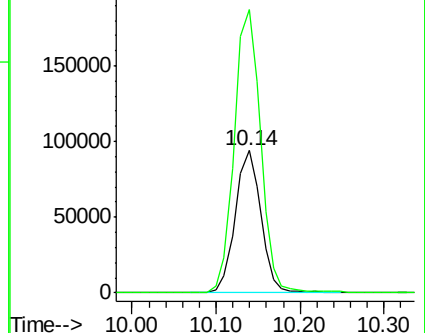
106 100

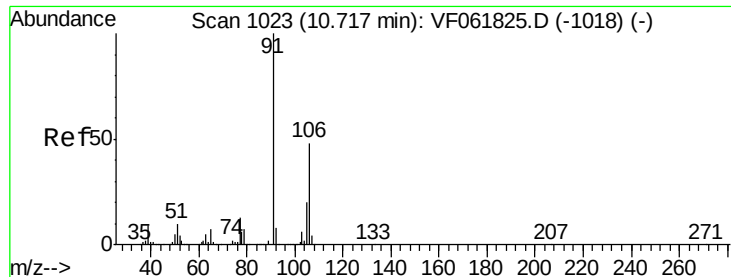
91 199.0 153.0 229.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

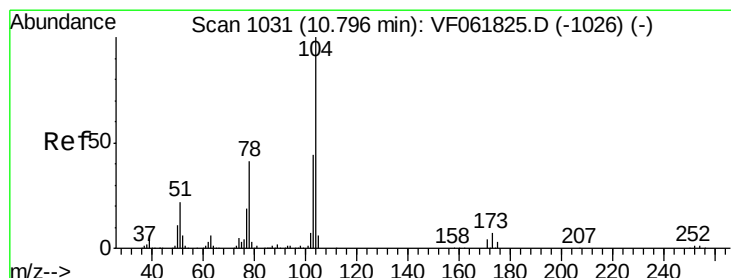
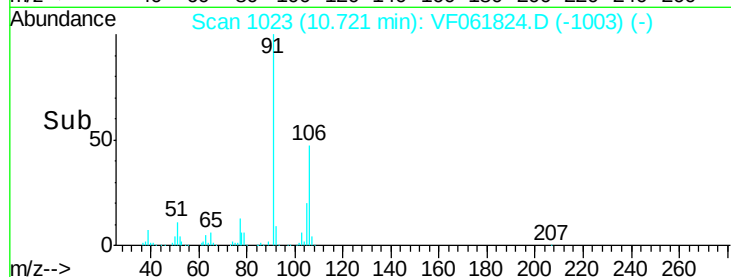
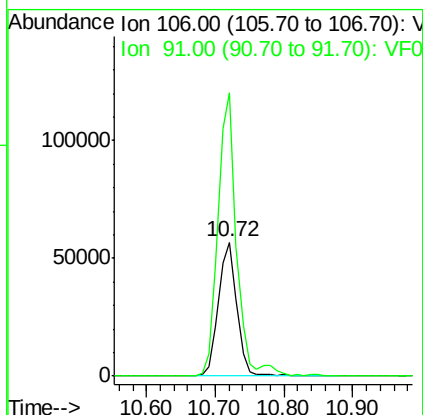
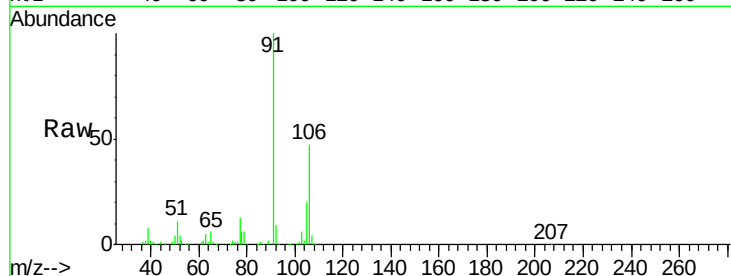




#69
o-Xylene
Concen: 19.710 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

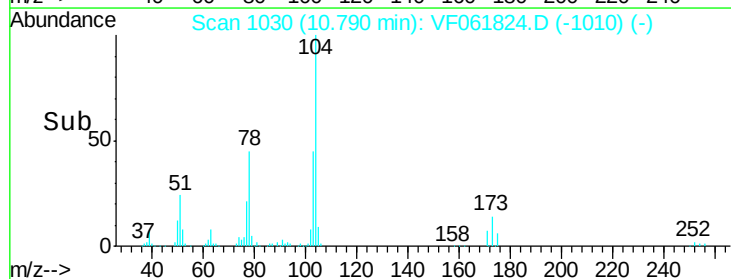
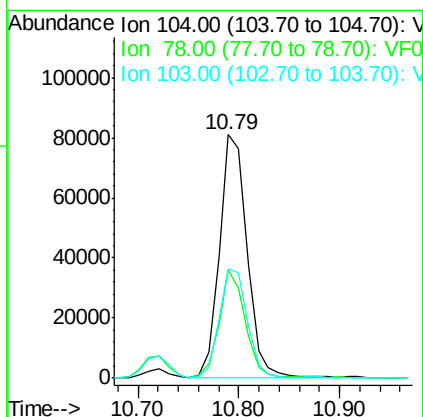
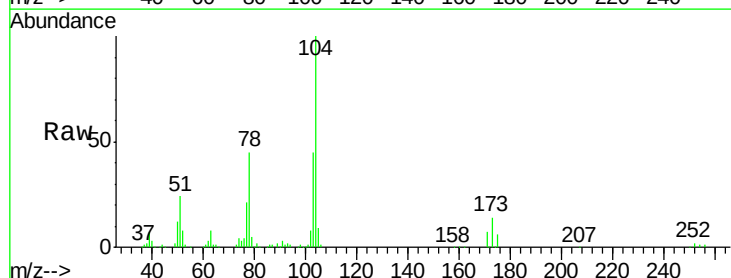
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

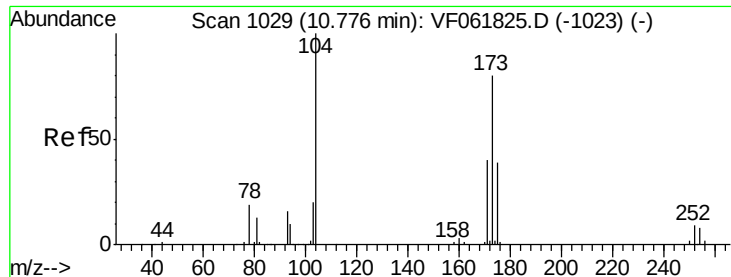
Tot Ion:106 Resp: 106447
Ion Ratio Lower Upper
106 100
91 211.0 100.1 300.1



#70
Styrene
Concen: 20.227 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion:104 Resp: 154538
Ion Ratio Lower Upper
104 100
78 44.5 33.2 49.8
103 44.9 37.2 55.8





#71

Bromoform

Concen: 19.121 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

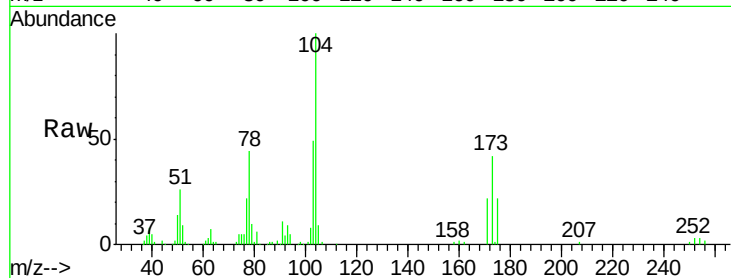
Tot Ion:173 Resp: 32355

Ion Ratio Lower Upper

173 100

175 51.0 24.0 72.0

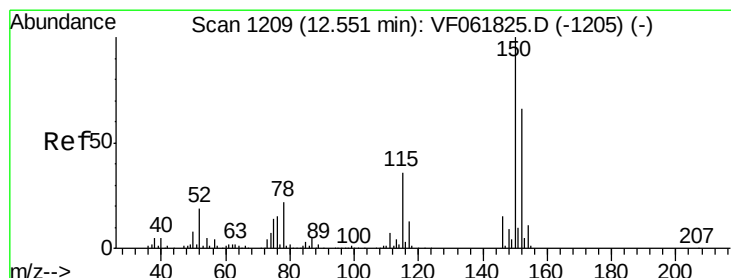
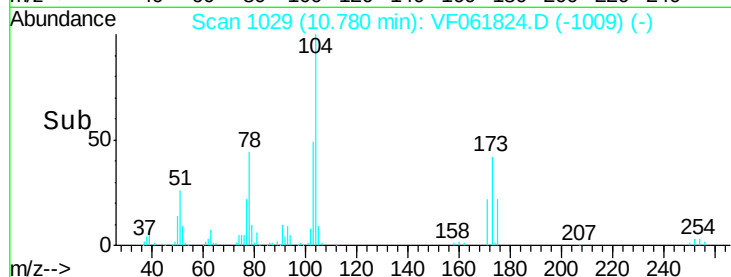
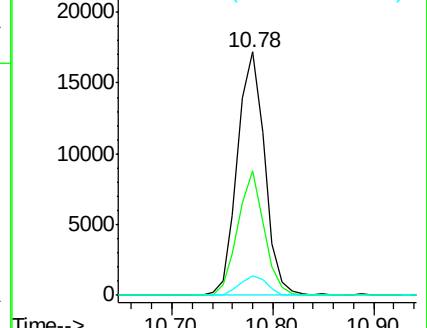
254 8.1 8.2 12.2#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

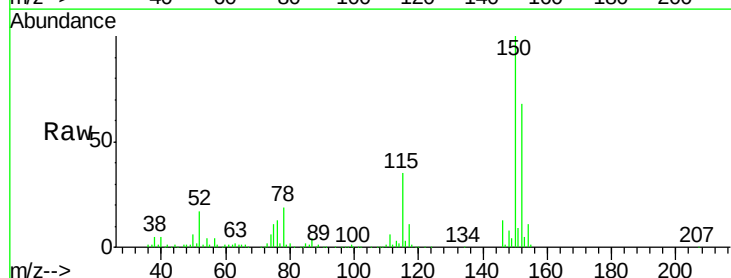
Tgt Ion:152 Resp: 221643

Ion Ratio Lower Upper

152 100

115 51.1 24.3 72.8

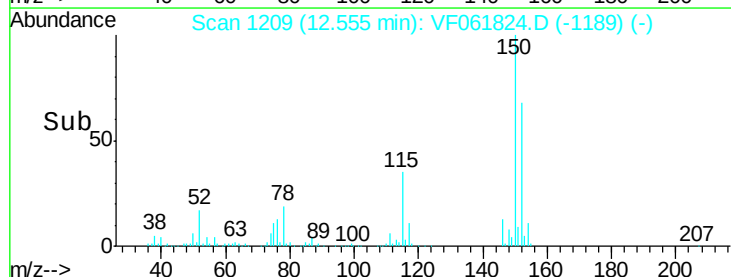
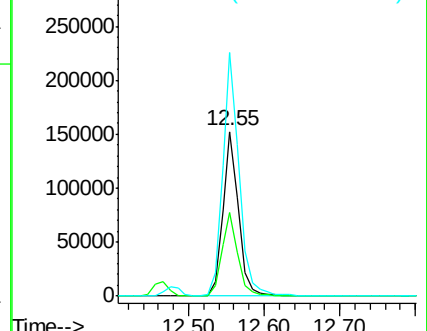
150 148.0 0.0 312.0

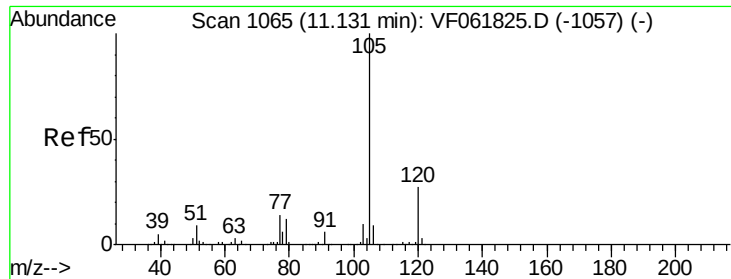


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 20.266 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

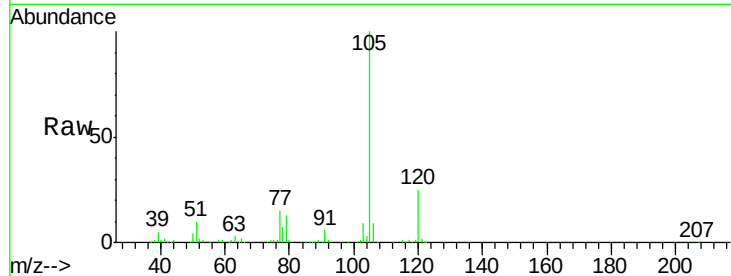
VSTDIC020

Tot Ion:105 Resp: 319804

Ion Ratio Lower Upper

105 100

120 25.3 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.12

200000

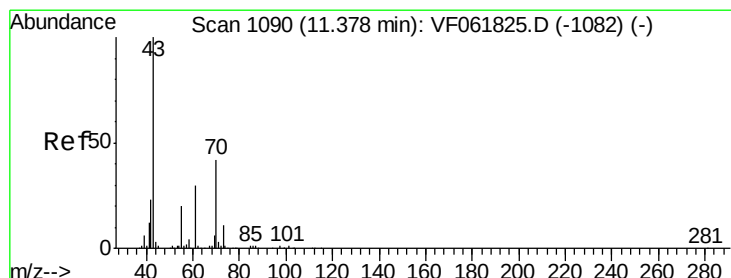
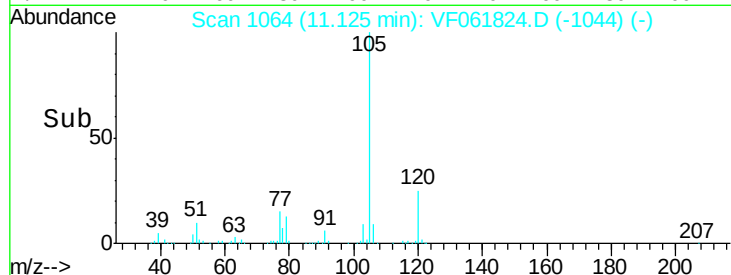
150000

100000

50000

0

Time--> 11.00 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 19.272 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Tgt Ion: 43 Resp: 72997

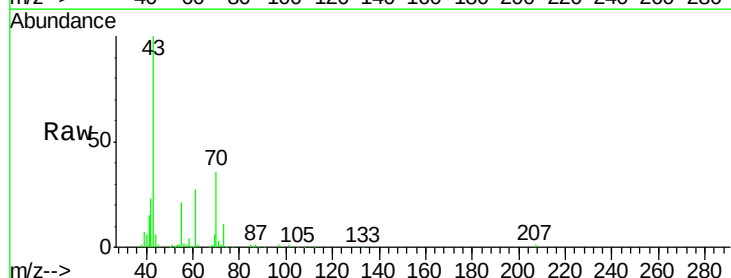
Ion Ratio Lower Upper

43 100

70 36.4 31.5 47.3

55 21.3 16.7 25.1

61 27.0 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.37

60000

50000

40000

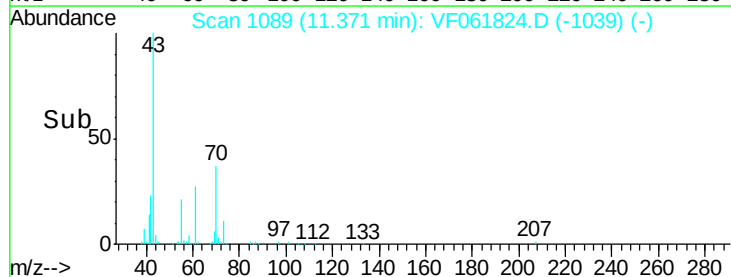
30000

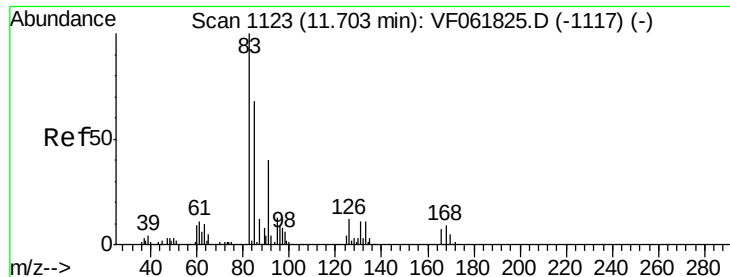
20000

10000

0

Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 18.320 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

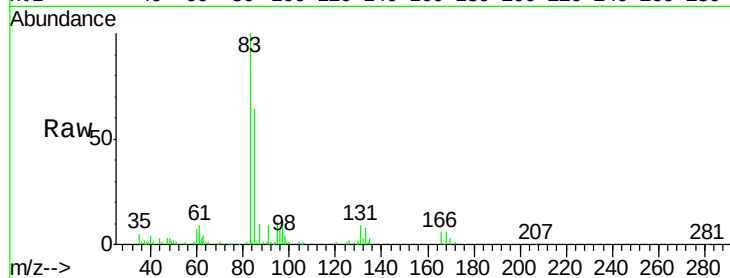
Tot Ion: 83 Resp: 51794

Ion Ratio Lower Upper

83 100

131 9.1 4.4 13.2

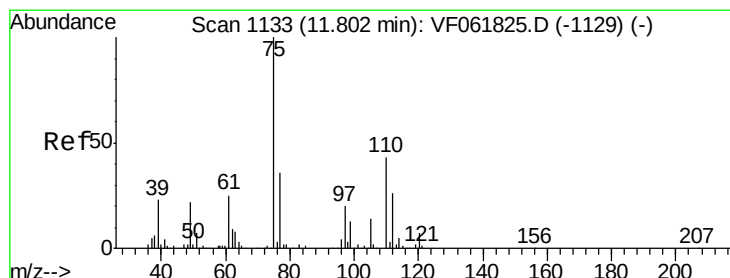
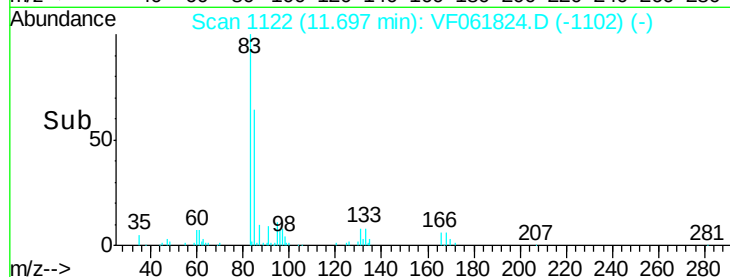
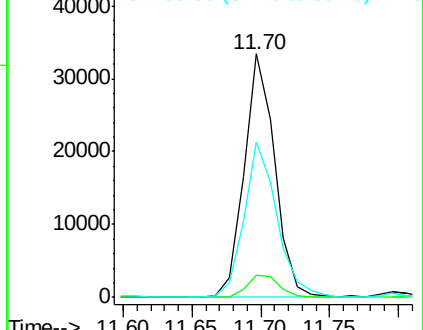
85 63.7 31.5 94.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 18.005 ug/l

RT: 11.80 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF061824.D

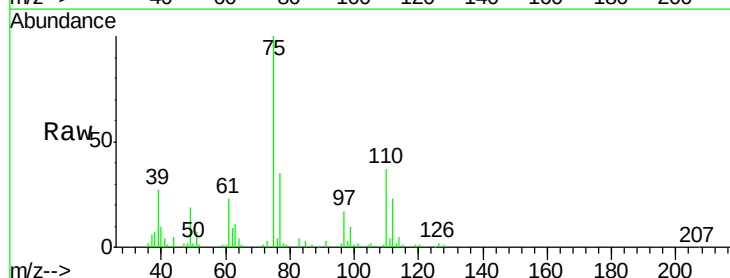
Acq: 4 Mar 2019 17:02

Tgt Ion: 75 Resp: 34608

Ion Ratio Lower Upper

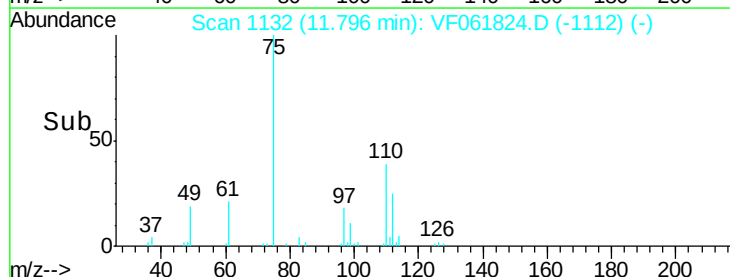
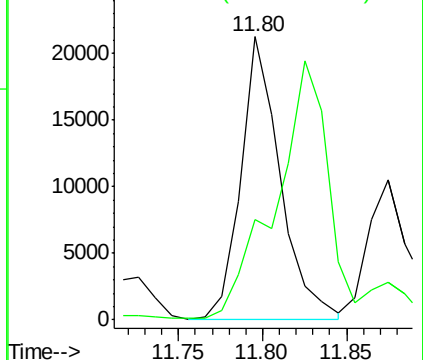
75 100

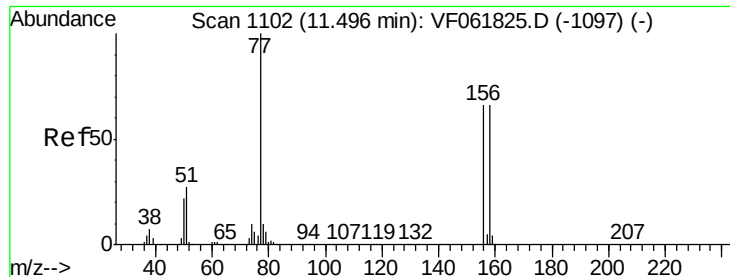
77 35.4 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 18.856 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

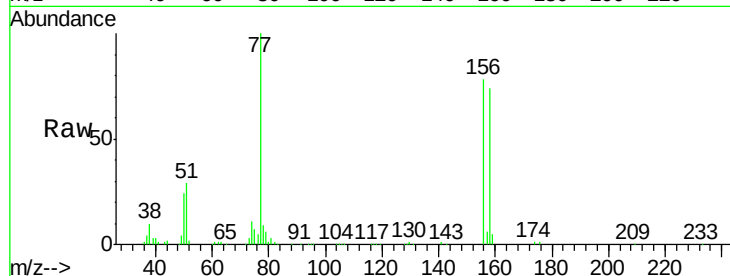
Tot Ion:156 Resp: 73509

Ion Ratio Lower Upper

156 100

77 127.6 64.3 192.7

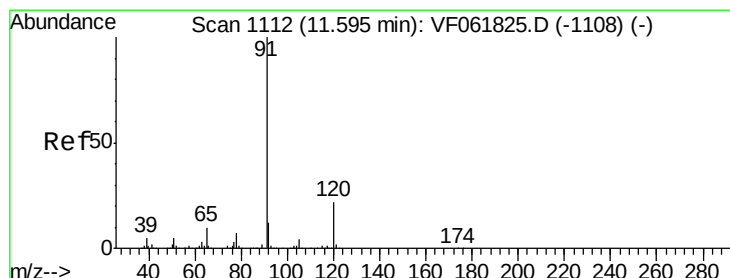
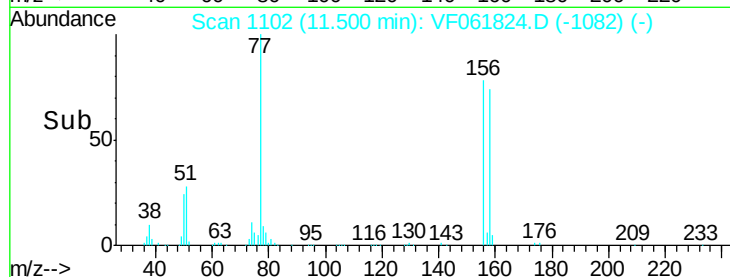
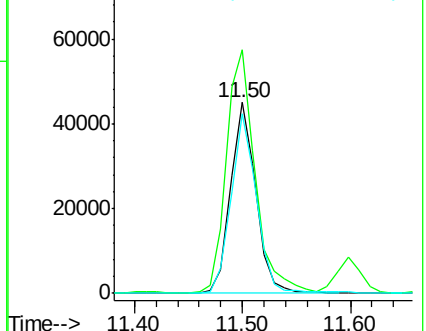
158 93.9 50.9 152.7



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 19.625 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF061824.D

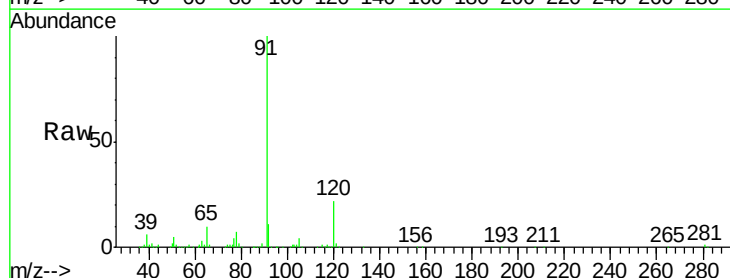
Acq: 4 Mar 2019 17:02

Tgt Ion: 91 Resp: 355379

Ion Ratio Lower Upper

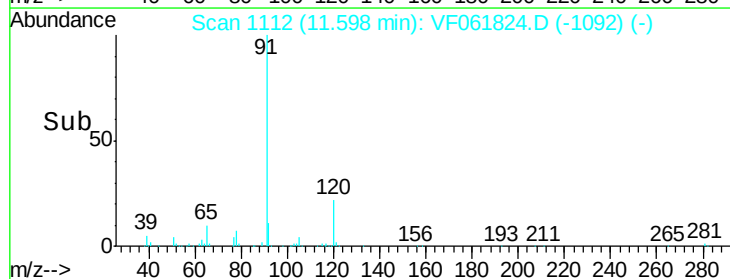
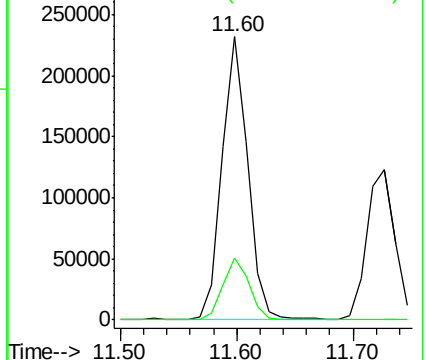
91 100

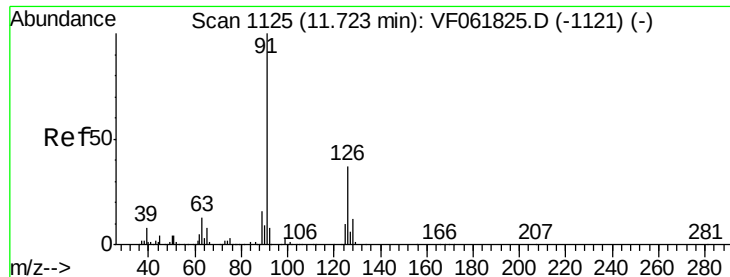
120 22.0 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.056 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

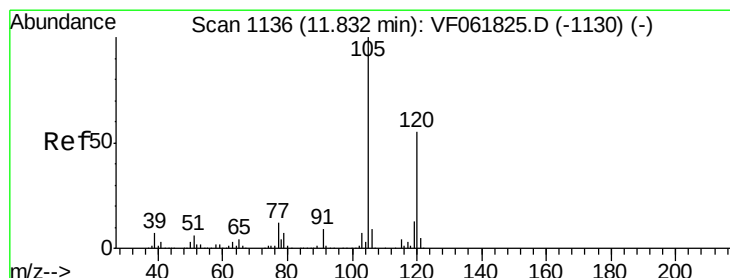
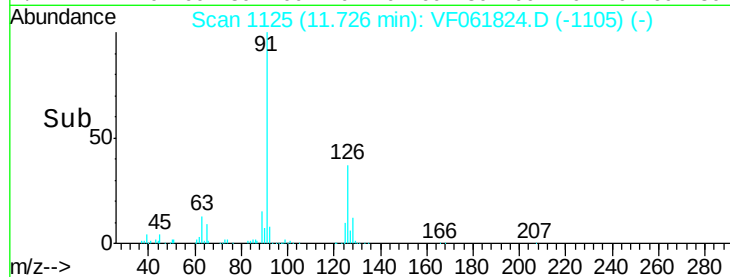
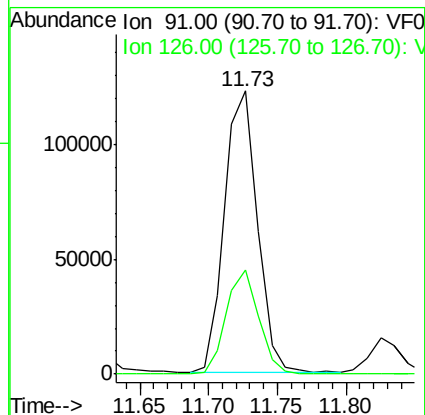
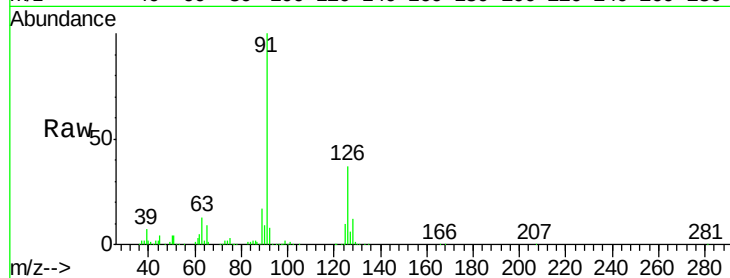
VSTDIC020

Tot Ion: 91 Resp: 203402

Ion Ratio Lower Upper

91 100

126 36.7 19.8 59.4



#80

1,3,5-Trimethylbenzene

Concen: 20.036 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF061824.D

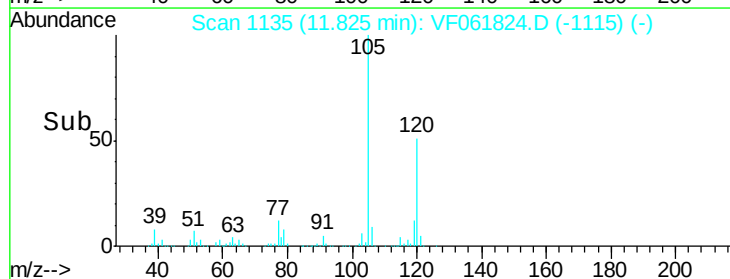
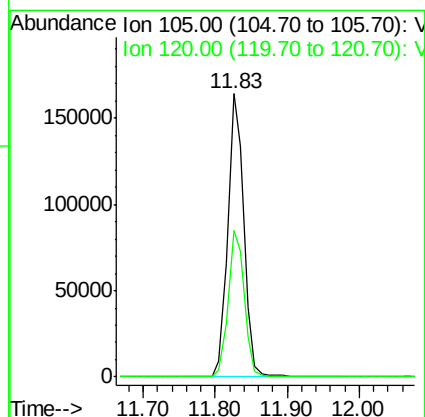
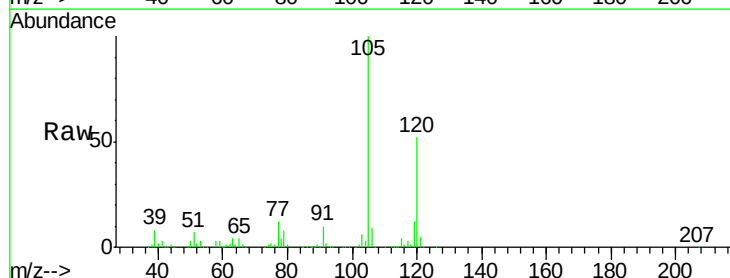
Acq: 4 Mar 2019 17:02

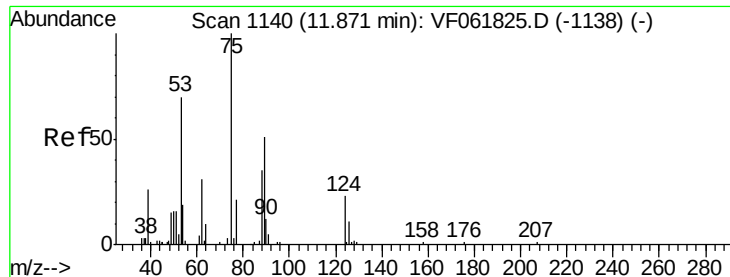
Tgt Ion:105 Resp: 252698

Ion Ratio Lower Upper

105 100

120 51.8 27.9 83.6

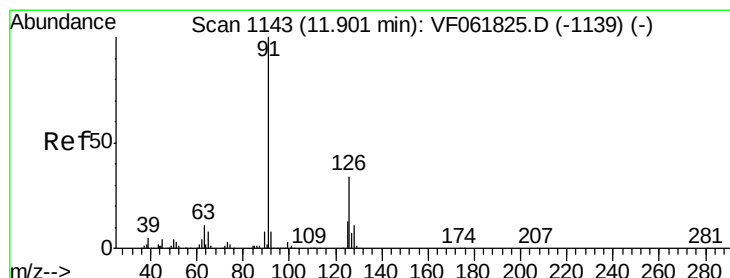
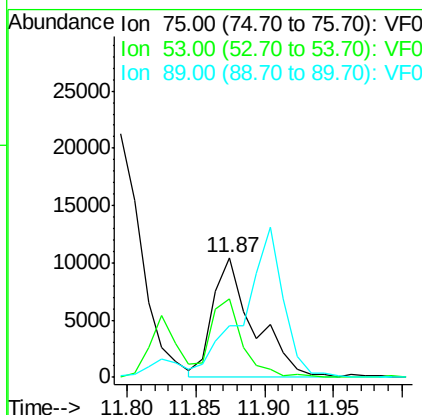
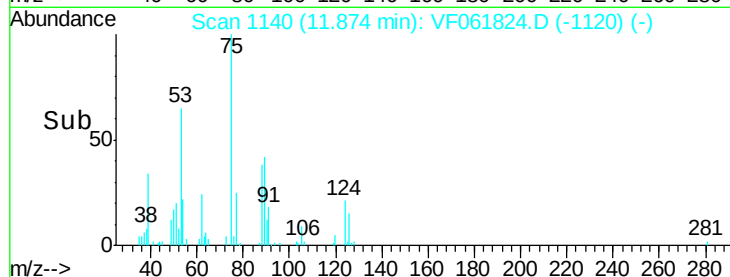
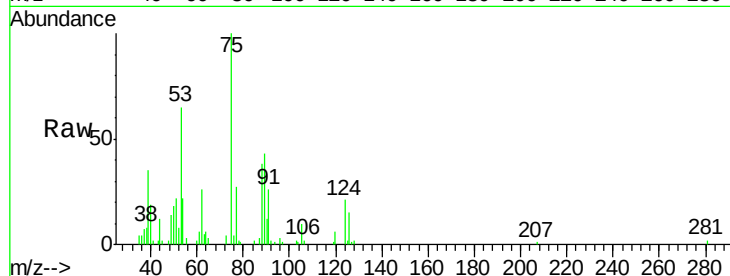




#81
trans-1,4-Dichloro-2-butene
Concen: 23.467 ug/l
RT: 11.87 min Scan# 1140
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

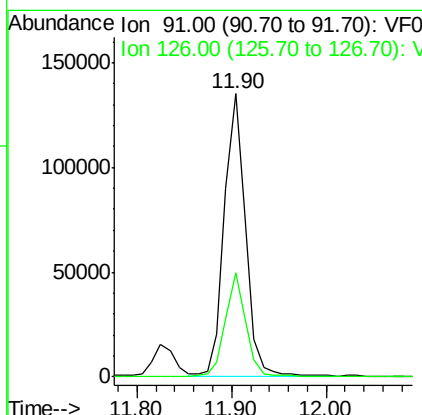
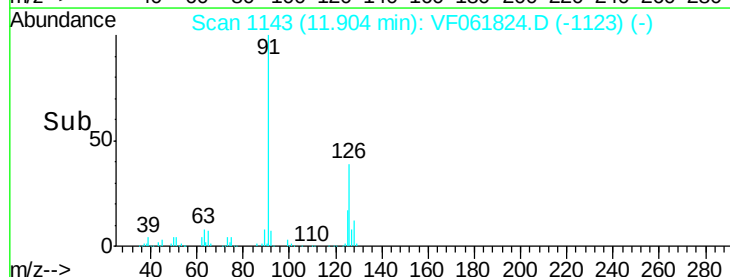
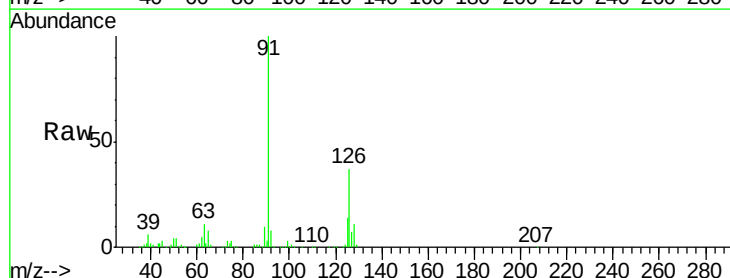
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

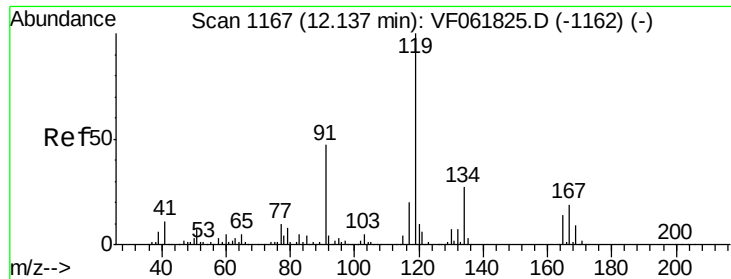
Tot Ion: 75 Resp: 21625
Ion Ratio Lower Upper
75 100
53 65.3 53.7 80.5
89 43.1 41.6 62.4



#82
4-Chlorotoluene
Concen: 19.800 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion: 91 Resp: 208430
Ion Ratio Lower Upper
91 100
126 36.7 19.1 57.1

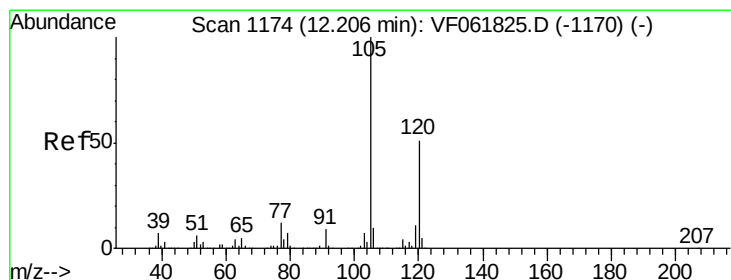
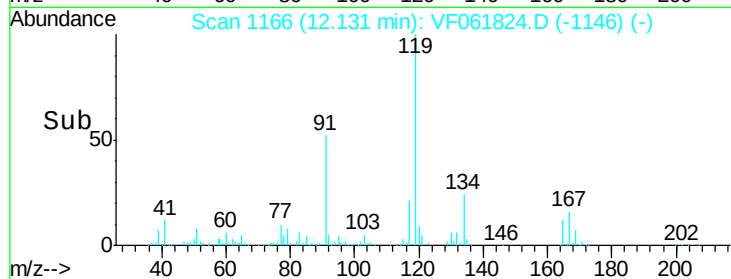
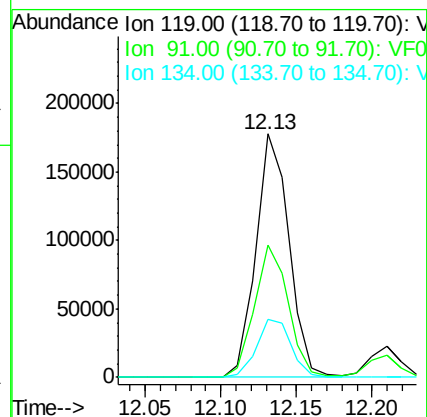
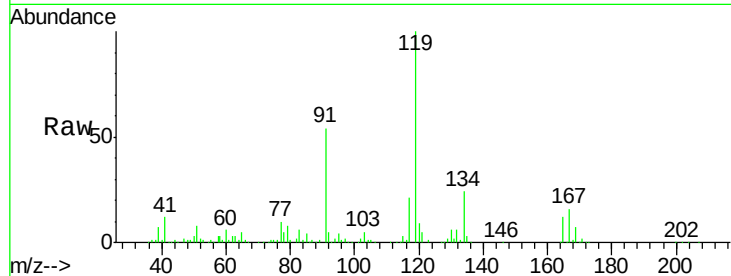




#83
 tert-Butylbenzene
 Concen: 19.541 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

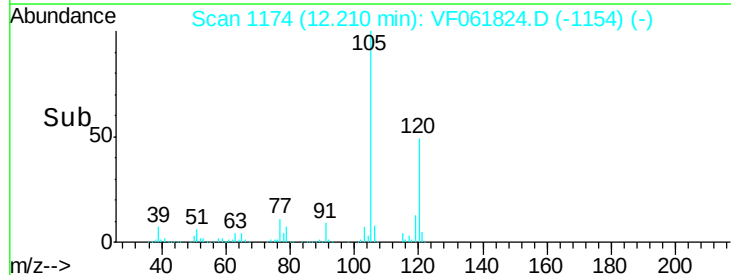
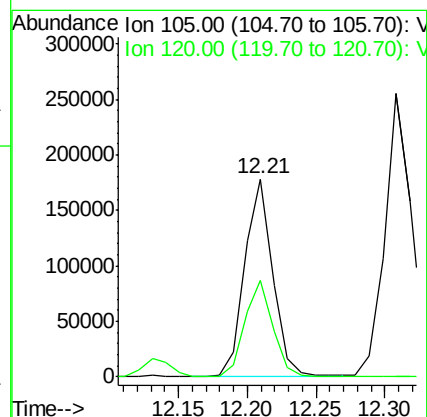
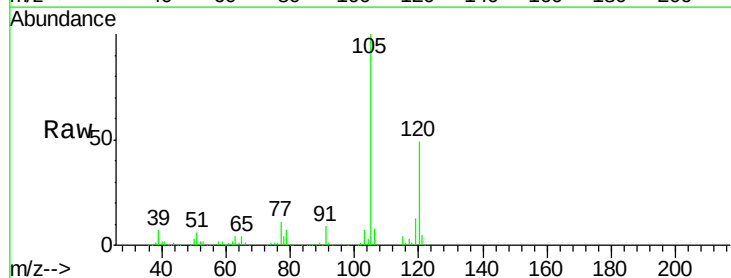
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

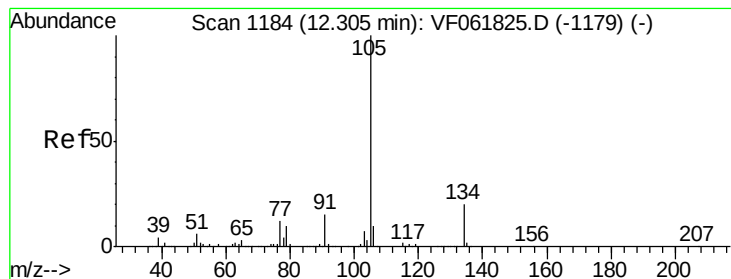
Tot Ion:119 Resp: 272983
 Ion Ratio Lower Upper
 119 100
 91 54.2 26.3 78.8
 134 23.8 12.9 38.7



#84
 1,2,4-Trimethylbenzene
 Concen: 20.293 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion:105 Resp: 254272
 Ion Ratio Lower Upper
 105 100
 120 48.5 26.1 78.3





#85

sec-Butylbenzene

Concen: 19.247 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

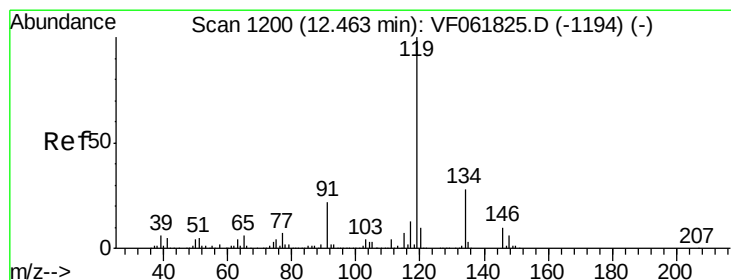
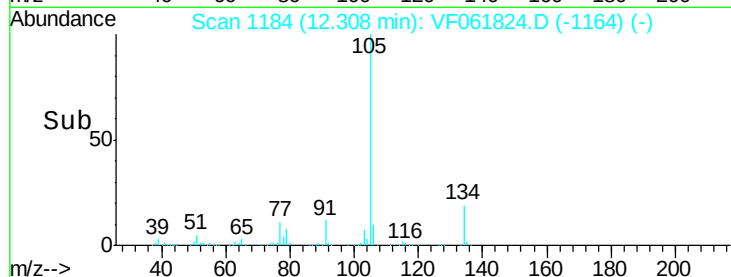
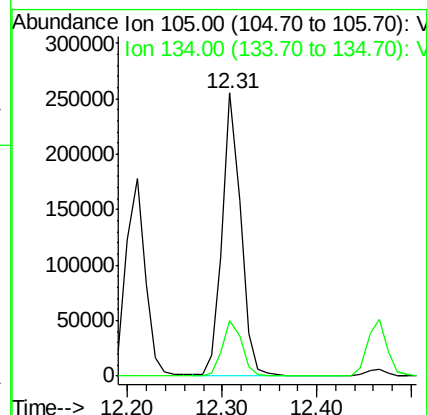
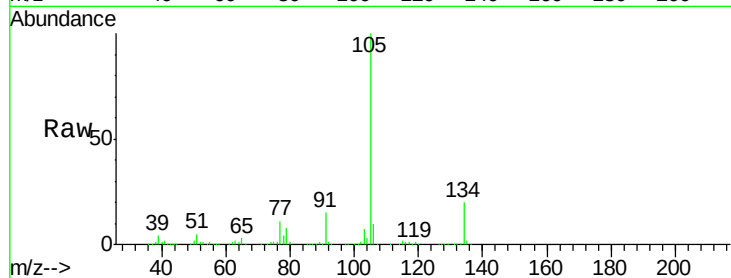
VSTDIC020

Tot Ion:105 Resp: 347705

Ion Ratio Lower Upper

105 100

134 19.6 10.8 32.4



#86

p-Isopropyltoluene

Concen: 19.517 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

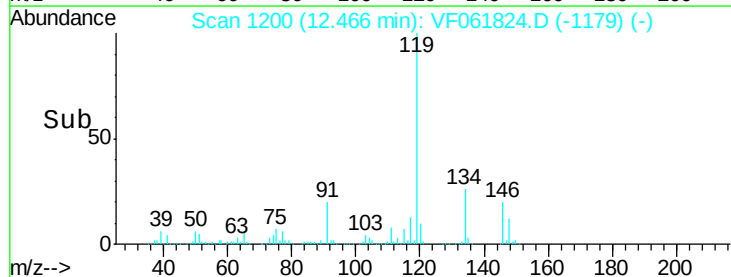
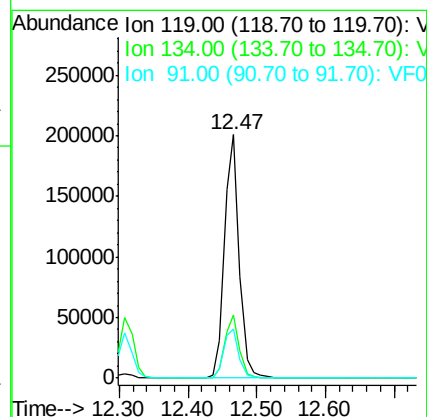
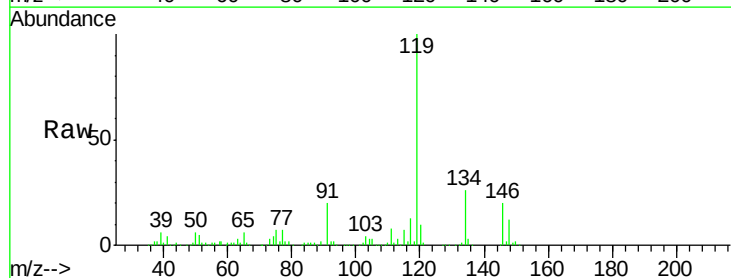
Tgt Ion:119 Resp: 295893

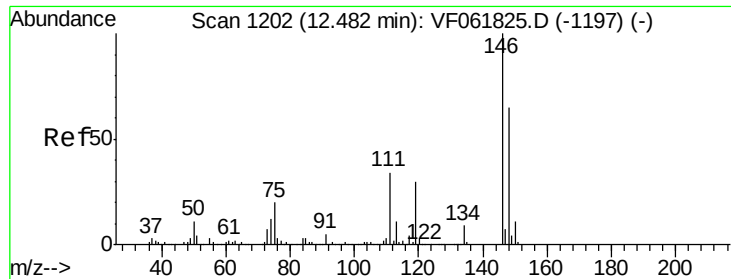
Ion Ratio Lower Upper

119 100

134 25.7 13.7 41.1

91 20.1 10.8 32.4

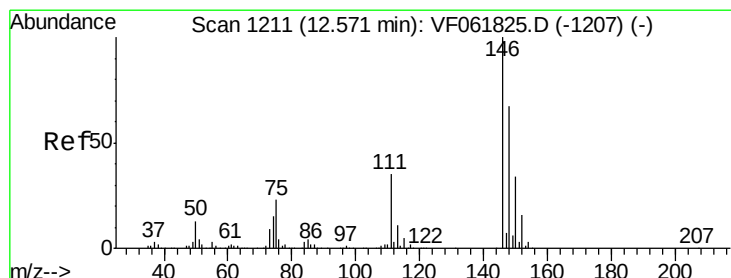
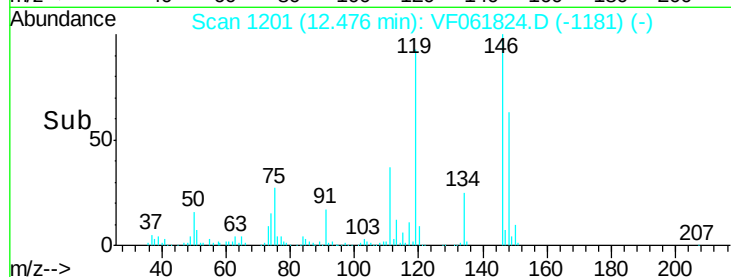
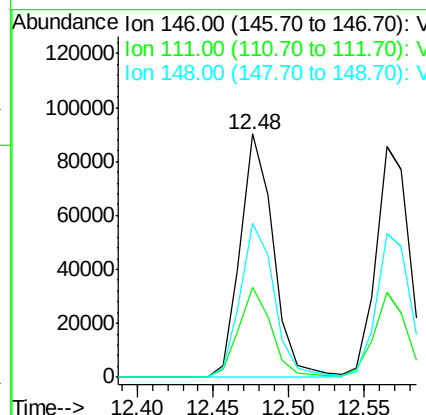
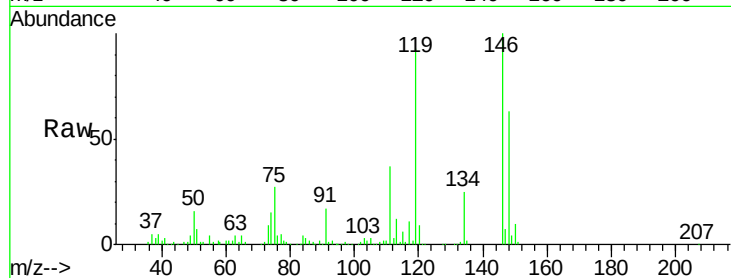




#87
 1,3-Dichlorobenzene
 Concen: 18.166 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

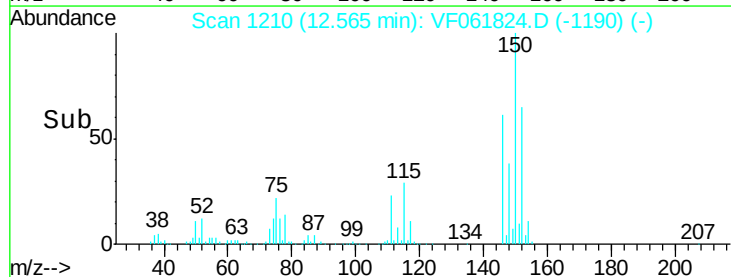
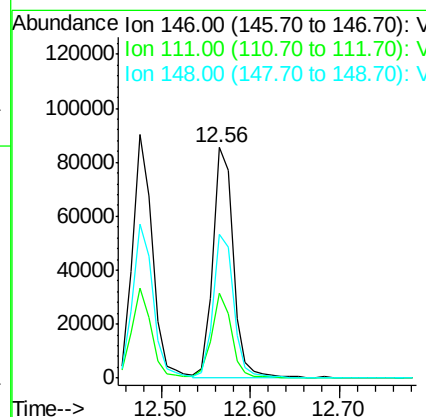
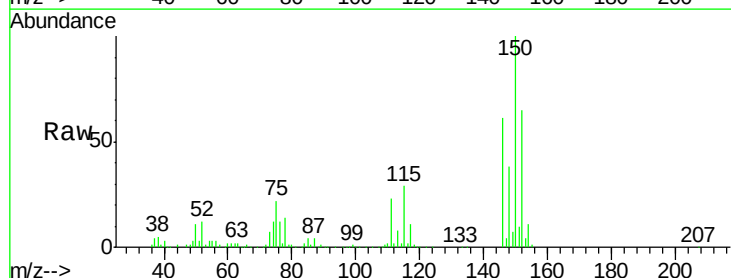
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

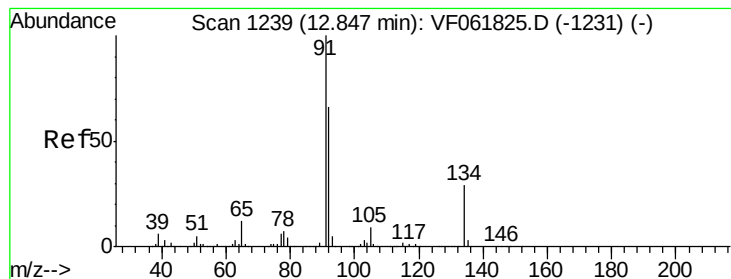
Tot Ion:146 Resp: 138067
 Ion Ratio Lower Upper
 146 100
 111 36.9 17.5 52.6
 148 63.4 31.4 94.3



#88
 1,4-Dichlorobenzene
 Concen: 18.469 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion:146 Resp: 134997
 Ion Ratio Lower Upper
 146 100
 111 36.9 18.4 55.4
 148 62.5 32.2 96.6





#89

n-Butylbenzene

Concen: 20.357 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

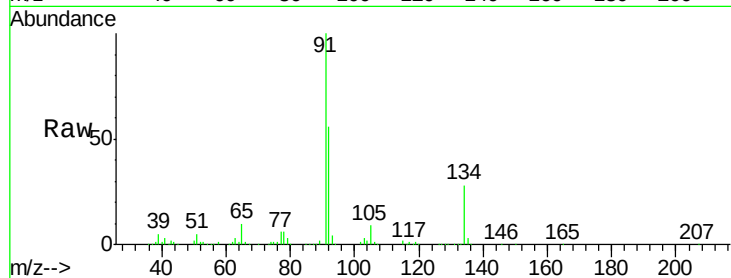
Tot Ion: 91 Resp: 291435

Ion Ratio Lower Upper

91 100

92 55.6 31.4 94.3

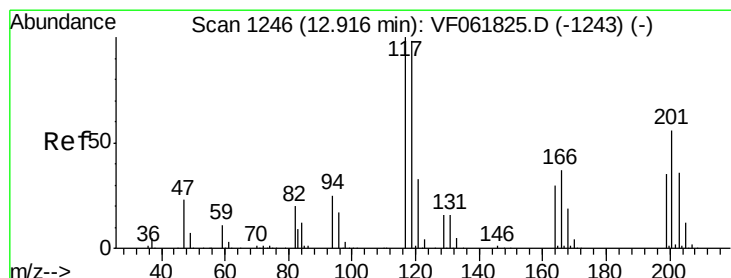
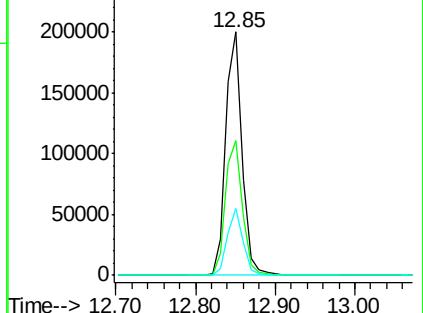
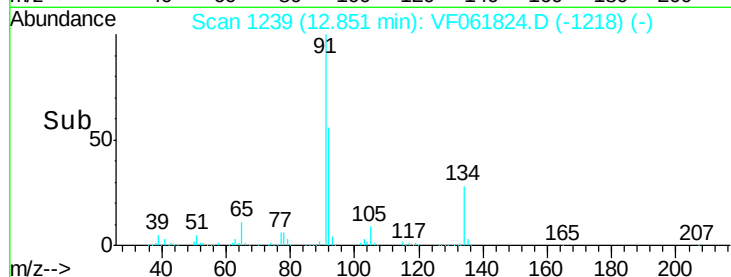
134 27.7 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 19.752 ug/l

RT: 12.92 min Scan# 1246

Delta R.T. -0.00 min

Lab File: VF061824.D

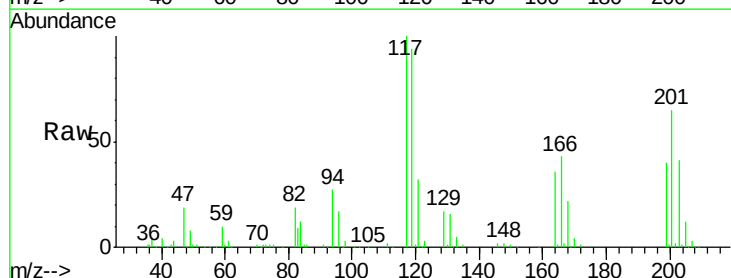
Acq: 4 Mar 2019 17:02

Tgt Ion: 117 Resp: 69647

Ion Ratio Lower Upper

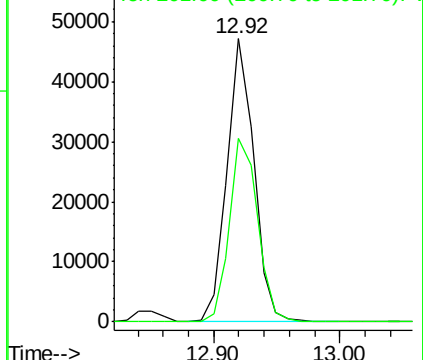
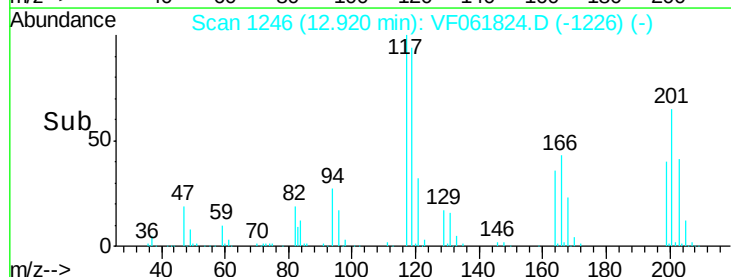
117 100

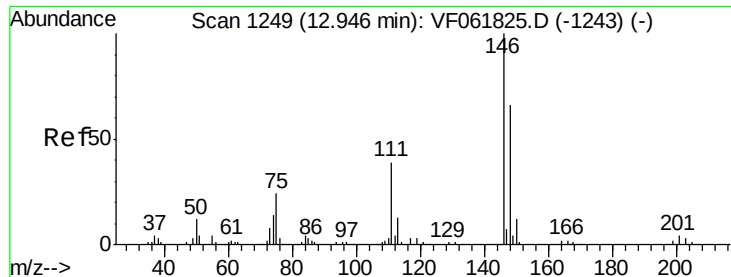
201 64.9 36.2 108.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

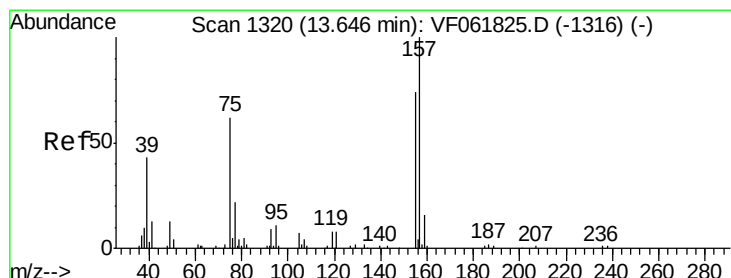
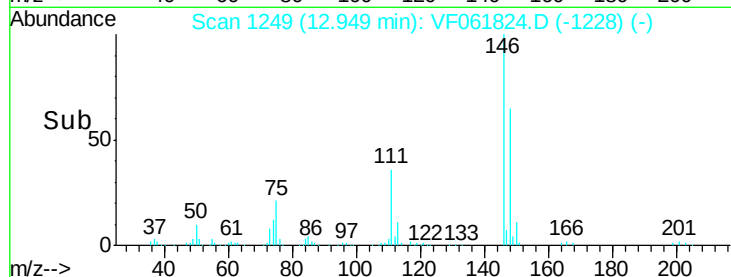
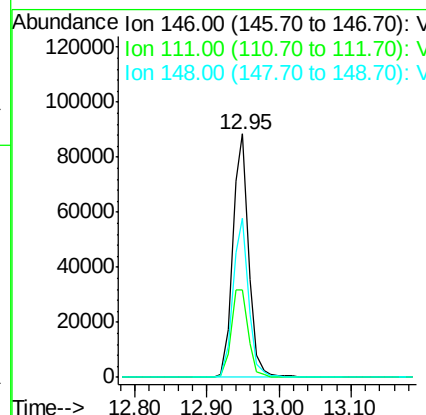
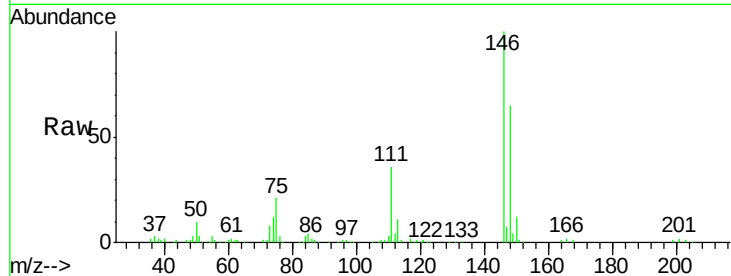




#91
 1,2-Dichlorobenzene
 Concen: 18.725 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

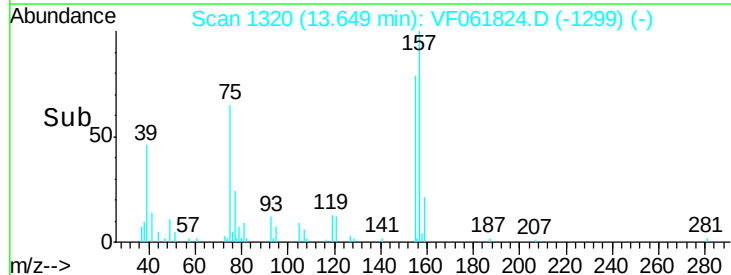
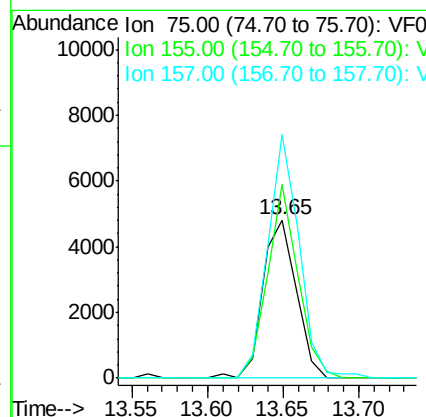
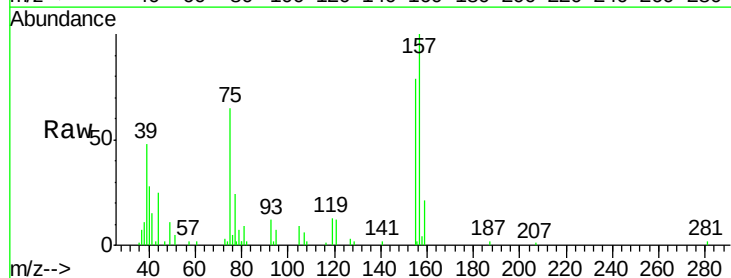
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

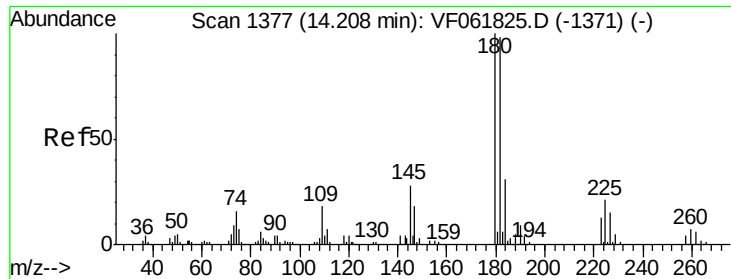
Tot Ion:146 Resp: 135363
 Ion Ratio Lower Upper
 146 100
 111 35.9 20.2 60.5
 148 65.2 32.3 96.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.601 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion: 75 Resp: 7441
 Ion Ratio Lower Upper
 75 100
 155 122.1 48.9 146.8
 157 153.9 58.3 174.8

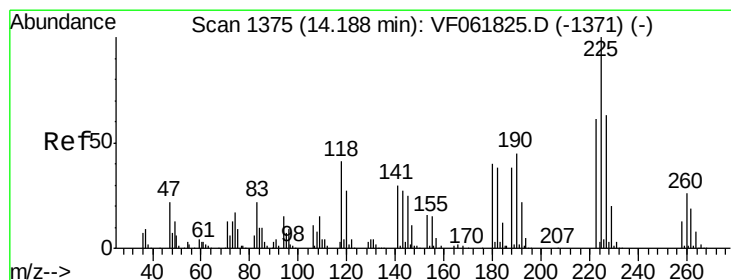
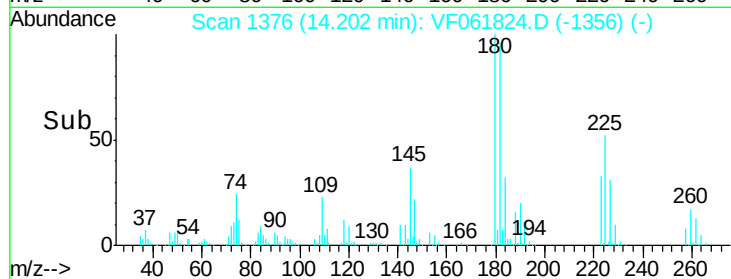
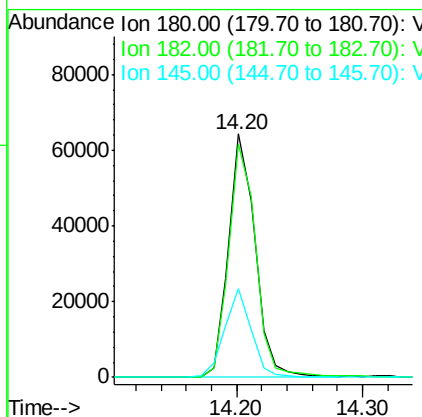
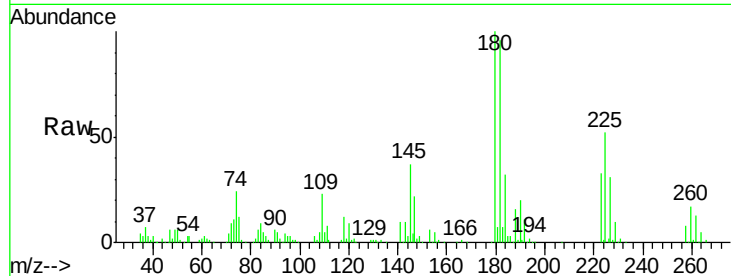




#93
 1,2,4-Trichlorobenzene
 Concen: 18.066 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

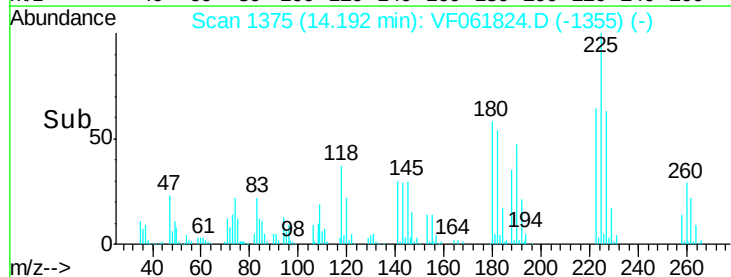
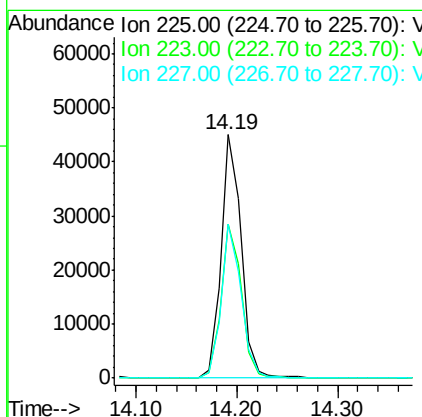
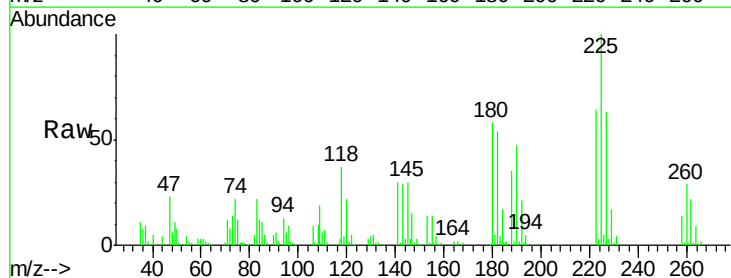
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

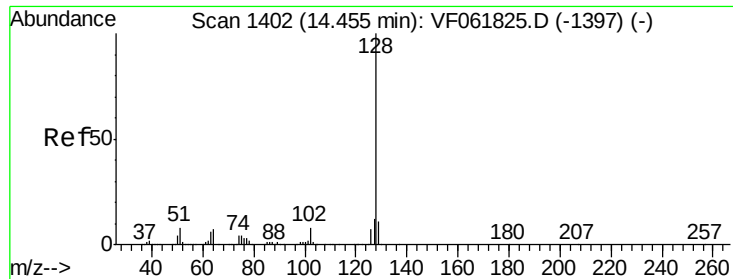
Tot Ion:180 Resp: 93612
 Ion Ratio Lower Upper
 180 100
 182 95.7 48.6 145.9
 145 36.7 15.3 45.9



#94
 Hexachlorobutadiene
 Concen: 19.646 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion:225 Resp: 62871
 Ion Ratio Lower Upper
 225 100
 223 63.5 30.9 92.7
 227 63.3 32.1 96.3





#95

Naphthalene

Concen: 17.558 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

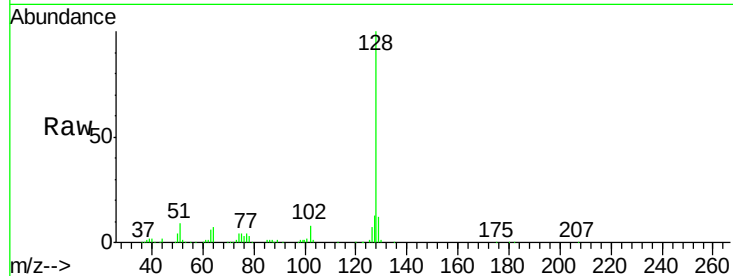
Tot Ion:128 Resp: 159176

Ion Ratio Lower Upper

128 100

127 12.9 9.8 14.6

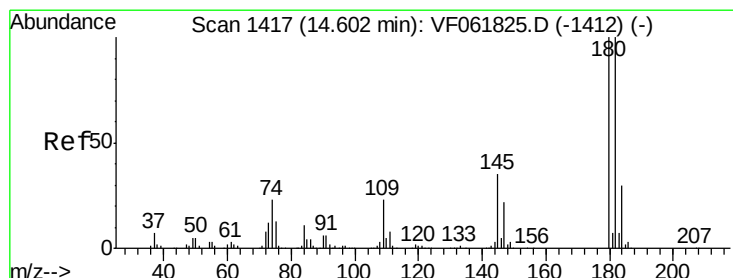
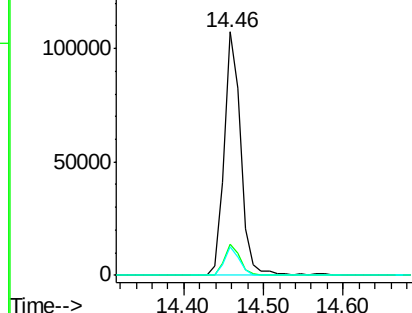
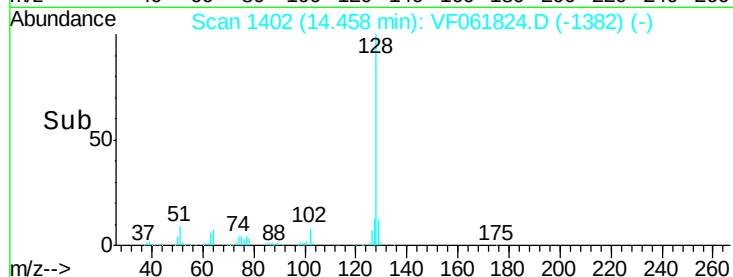
129 11.7 9.4 14.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 18.536 ug/l

RT: 14.61 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

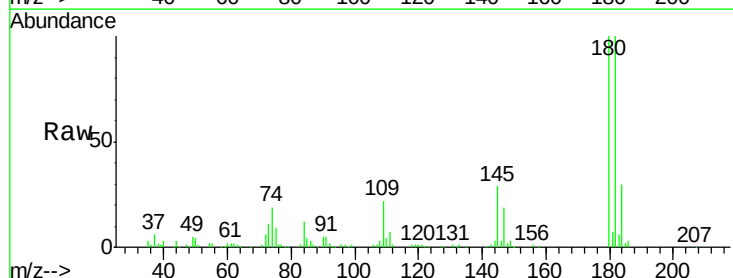
Tgt Ion:180 Resp: 88157

Ion Ratio Lower Upper

180 100

182 100.3 49.0 147.2

145 29.4 15.4 46.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

